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## What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

## Applications of "[Embedded - Microcontrollers](#)"

### Details

Product Status	Discontinued at Digi-Key
Core Processor	TriCore™
Core Size	32-Bit Single-Core
Speed	200MHz
Connectivity	ASC, CANbus, FlexRay, MLI, MSC, SSC
Peripherals	DMA, POR, WDT
Number of I/O	128
Program Memory Size	3MB (3M x 8)
Program Memory Type	FLASH
EEPROM Size	192K x 8
RAM Size	288K x 8
Voltage - Supply (Vcc/Vdd)	1.17V ~ 3.63V
Data Converters	A/D 8x10b, 44x12b
Oscillator Type	External
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	292-LFBGA
Supplier Device Package	PG-LFBGA-292-6
Purchase URL	<a href="https://www.e-xfl.com/product-detail/infineon-technologies/tc1791n384f200epabkxuma1">https://www.e-xfl.com/product-detail/infineon-technologies/tc1791n384f200epabkxuma1</a>

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# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC22xx Series (Body)</b>				
SAK-XC2220U-8F40V AA-Step	SP000846742	XC2220U8F40VAAKXUMA1	PG-VQFN-48-54	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/Compact Line High performance CPU with 5-stage pipeline, 64-Kbyte on-chip program memory, 4-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, capture/compare unit (CCU6), 10-channel 12-Bit A/D converter, two serial interface channels, 40-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2210U-4F40R AA-Step	SP000858094	XC2210U4F40RAAKXUMA1	PG-TSSOP-38-8	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/Compact Line High performance CPU with 5-stage pipeline, 32-Kbyte on-chip program memory, 8-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, capture/compare unit (CCU6), 8-channel 12-Bit A/D converter, two serial interface channels, 40-MHz clock frequency, -40°C to 125°C, tape & reel
▼ SAK-XC2220U-4F40V AA-Step	SP000858088	XC2220U4F40VAAKFUMA1	PG-VQFN-48-54	as SAK-XC2210U-4F40R VQFN package
SAK-XC2224L-20F66V AA-Step	SP000846740	XC2224L20F66VAAKXUMA1	PG-VQFN-48-54	as SAK-XC2220U-8F40L, Econo Line 160-Kbyte on-chip program memory, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

## Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC229x Series (Body)</b>				
SAK-XC2298H-200F100L AB-Step	SP000844810	XC2298H200F100LABKXUMA1	PG-LQFP-176-12	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/ High Line High performance CPU with 5-stage pipeline, 1,600-Kbyte on-chip program memory, 112-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 16 + 14-channel 10-Bit A/D converter, six Full-CAN nodes, ten serial interface channels, 100-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2299H-200F100L AB-Step	SP000761326	XC2299H200F100LABKXUMA1	PG-LQFP-176-12	as SAK-XC2298H-200F100L, High Line two FlexRay™ nodes, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS\ (on)\ max}$ mΩ	$V_{GS\ (th)}$ V	$I_D$ A

**Automotive N-Channel MOSFETs****40V**

(cont'd)

IPG20N04S4L-07	SP000705484	IPG20N04S4L07ATMA1	PG-TDS0N-8-4	40	2 x 7.2	1.2 ... 2.2	20
IPG20N04S4L-08	SP000705576	IPG20N04S4L08ATMA1	PG-TDS0N-8-4	40	2 x 8.2	1.2 ... 2.2	20
IPG20N04S4-08	SP000705582	IPG20N04S408ATMA1	PG-TDS0N-8-4	40	2 x 7.6	2.0 ... 4.0	20
IPG20N04S4-09	SP000705570	IPG20N04S409ATMA1	PG-TDS0N-8-4	40	2 x 8.6	2.0 ... 4.0	20
IPG20N04S4L-11	SP000705564	IPG20N04S4L11ATMA1	PG-TDS0N-8-4	40	2 x 11.6	1.2 ... 2.2	20
IPG20N04S4-12	SP000705560	IPG20N04S412ATMA1	PG-TDS0N-8-4	40	2 x 12.2	2.0 ... 4.0	20
IPI120N04S4-01	SP000705722	IPI120N04S401AKSA1	PG-T0262-3-1	40	1.5	2.0 ... 4.0	120
IPI120N04S4-02	SP000764742	IPI120N04S402AKSA1	PG-T0262-3-1	40	1.8	2.0 ... 4.0	120
IPI90N04S4-04	SP000646194	IPI90N04S402AKSA1	PG-T0262-3-1	40	2.1	2.0 ... 4.0	90
■ IPI120N04S3-02	SP000261225	IPI120N04S302AKSA1	PG-T0262-3-1	40	2.3	2.1 ... 4.0	120
IPI100N04S4-H2	SP000711282	IPI100N04S4H2AKSA1	PG-T0262-3-1	40	2.4	2.0 ... 4.0	100
■ IPI100N04S4-03M	SP000850484	IPI100N04S403DXKSA1	PG-T0262-3-1	40	2.5	2.1 ... 4.0	100
IPI100N04S3-03	SP000465798	IPI100N04S303MATMA2	PG-T0262-3-1	40	2.5	2.0 ... 4.0	100
■ IPI80N04S3-03	SP000261238	IPI80N04S303AKSA1	PG-T0262-3-1	40	3.0	2.1 ... 4.0	80
■ IPI100N04S3-03	SP000261223	IPI100N04S303AKSA1	PG-T0262-3-1	40	3.3	2.1 ... 4.0	100
IPI80N04S4-03	SP000671634	IPI80N04S403AKSA1	PG-T0262-3-1	40	3.3	2.0 ... 4.0	80
IPI80N04S2-04	SP000219058	IPI80N04S204AKSA1	PG-T0262-3-1	40	3.7	2.1 ... 4.0	80
IPI80N04S2-H4	SP000218171	IPI80N04S2H4AKSA1	PG-T0262-3-1	40	4.0	2.1 ... 4.0	80
IPI80N04S4L-04	SP000646192	IPI80N04S4L04AKSA1	PG-T0262-3-1	40	4.0	1.2 ... 2.0	80
IPI80N04S4-04	SP000646190	IPI80N04S404AKSA1	PG-T0262-3-1	40	4.2	2.0 ... 4.0	80
■ IPI80N04S3-04	SP000261226	IPI80N04S304AKSA1	PG-T0262-3-1	40	4.3	2.1 ... 4.0	80
■ IPI80N04S3-H4	SP000415630	IPI80N04S3H4AKSA1	PG-T0262-3-1	40	4.8	2.1 ... 4.0	80
IPI70N04S4-06	SP000711484	IPI70N04S406AKSA1	PG-T0262-3-1	40	6.2	2.0 ... 4.0	70
■ IPI80N04S3-06	SP000261237	IPI80N04S306AKSA1	PG-T0262-3-1	40	6.3	2.1 ... 4.0	80
■ IPI70N04S3-03	SP000279551	IPI70N04S307AKSA1	PG-T0262-3-1	40	6.8	2.1 ... 4.0	70
IPP120N04S4-01	SP000705704	IPP120N04S401AKSA1	PG-T0220-3-1	40	1.5	2.0 ... 4.0	120
IPP120N04S4-02	SP000764734	IPP120N04S402AKSA1	PG-T0220-3-1	40	1.8	2.0 ... 4.0	120
IPP90N04S4-02	SP000646200	IPP90N04S402AKSA1	PG-T0220-3-1	40	2.1	2.0 ... 4.0	90
■ IPP120N04S3-02	SP000261228	IPP120N04S302AKSA1	PG-T0220-3-1	40	2.3	2.1 ... 4.0	120
IPP100N04S4-H2	SP000711278	IPP100N04S4H2AKSA1	PG-T0220-3-1	40	2.4	2.0 ... 4.0	100
IPP100N04S3-03	SP000850486	IPP100N04S403DXKSA1	PG-T0220-3-1	40	2.5	2.0 ... 4.0	100
■ IPP80N04S3-03	SP000261229	IPP80N04S303AKSA1	PG-T0220-3-1	40	3.0	2.1 ... 4.0	80
IPP80N04S2L-03	SP000219063	IPP80N04S2L03AKSA1	PG-T0220-3-1	40	3.3	1.2 ... 2.0	80
IPP100N04S2L-03	SP000219062	IPP100N04S2L03AKSA1	PG-T0220-3-1	40	3.3	1.2 ... 2.0	100
IPP100N04S2-04	SP000219056	IPP100N04S204AKSA1	PG-T0220-3-1	40	3.3	2.1 ... 4.0	100
■ IPP100N04S3-03	SP000261227	IPP100N04S303AKSA1	PG-T0220-3-1	40	3.3	2.1 ... 4.0	100
IPP80N04S4-03	SP000671756	IPP80N04S403AKSA1	PG-T0220-3-1	40	3.3	2.0 ... 4.0	80
IPP80N04S2-04	SP000219054	IPP80N04S204AKSA1	PG-T0220-3-1	40	3.4	2.1 ... 4.0	80
IPP80N04S2-H4	SP000218169	IPP80N04S2H4AKSA1	PG-T0220-3-1	40	4.0	2.1 ... 4.0	80
IPP80N04S4L-04	SP000646198	IPP80N04S4L04AKSA1	PG-T0220-3-1	40	4.0	1.2 ... 2.0	80
IPP80N04S4-04	SP000646196	IPP80N04S404AKSA1	PG-T0220-3-1	40	4.2	2.0 ... 4.0	80
■ IPP80N04S3-04	SP000261230	IPP80N04S304AKSA1	PG-T0220-3-1	40	4.3	2.1 ... 4.0	80
■ IPP80N04S3-H4	SP000415702	IPP80N04S3H4AKSA1	PG-T0220-3-1	40	4.3	2.1 ... 4.0	80
IPP70N04S4-06	SP000711480	IPP70N04S406AKSA1	PG-T0220-3-1	40	6.2	2.0 ... 4.0	70
■ IPP70N04S3-07	SP000279559	IPP70N04S307AKSA1	PG-T0220-3-1	40	6.2	2.1 ... 4.0	80
■ IPP80N04S3-06	SP000261233	IPP80N04S306AKSA1	PG-T0220-3-1	40	6.3	2.1 ... 4.0	80

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS\ (on)\ max}$	$V_{GS\ (th)}$	$I_D$
				V	mΩ	V	A

**Automotive N-Channel MOSFETs****55V**

(cont'd)

IPP80N06S2L-11	SP000218175	IPP80N06S2L11AKSA1	PG-T0220-3-1	55	11	1.2 ... 2.0	80
IPP77N06S2-12	SP000218172	IPP77N06S212AKSA1	PG-T0220-3-1	55	12	2.1 ... 4.0	77
■ SPB80N06S-08	SP000084808	SPB80N06S08ATMA1	PG-T0263-3-2	55	7.7	2.1 ... 4.0	80
SPP80N06S-08	SP000084810	SPP80N06S08AKSA1	PG-T0220-3-1	55	7.7	2.1 ... 4.0	80

**60V**

IPB180N06S4-H1	SP001028786	IPB180N06S4H1ATMA2	PG-T0263-7-3	60	1.7	2.0 ... 4.0	180
IPB120N06S4-H1	SP001028782	IPB120N06S4H1ATMA2	PG-T0263-3-2	60	2.1	2.0 ... 4.0	120
IPB120N06S4-02	SP001028776	IPB120N06S402ATMA2	PG-T0263-3-2	60	2.4	2.0 ... 4.0	120
IPB120N06S4-03	SP001028770	IPB120N06S403ATMA2	PG-T0263-3-2	60	2.8	2.0 ... 4.0	120
IPB90N06S4L-04	SP001028756	IPB90N06S4L04ATMA2	PG-T0263-3-2	60	3.4	1.2 ... 2.2	90
IPB90N06S4-04	SP001028754	IPB90N06S404ATMA2	PG-T0263-3-2	60	3.7	2.0 ... 4.0	90
IPB80N06S4L-05	SP001028720	IPB80N06S4L05ATMA2	PG-T0263-3-2	60	4.8	1.2 ... 2.2	80
IPB80N06S4-05	SP001028718	IPB80N06S405ATMA2	PG-T0263-3-2	60	5.4	2.0 ... 4.0	80
IPB80N06S4-07	SP001028672	IPB80N06S407ATMA2	PG-T0263-3-2	60	7.1	2.0 ... 4.0	80
IPB80N06S4L-07	SP001028674	IPB80N06S4L07ATMA2	PG-T0263-3-2	60	6.4	1.2 ... 2.2	80
IPB45N06S4L-08	SP001028654	IPB45N06S4L08ATMA2	PG-T0263-3-2	60	8.2	1.2 ... 2.2	45
IPB45N06S4-09	SP001028652	IPB45N06S409ATMA2	PG-T0263-3-2	60	9.1	2.0 ... 4.0	45
IPD100N06S4-03	SP001028766	IPD100N06S403ATMA2	PG-T0252-3-11	60	3.5	2.0 ... 4.0	100
IPD90N06S4L-03	SP001028764	IPD90N06S4L03ATMA2	PG-T0252-3-11	60	3.5	1.2 ... 2.2	90
IPD90N06S4-04	SP001028762	IPD90N06S404ATMA2	PG-T0252-3-11	60	3.8	2.0 ... 4.0	90
IPD90N06S4L-05	SP001028748	IPD90N06S4L05ATMA2	PG-T0252-3-11	60	4.6	1.2 ... 2.2	90
IPD90N06S4-05	SP001028730	IPD90N06S405ATMA2	PG-T0252-3-11	60	5.1	2.0 ... 4.0	90
IPD90N06S4L-06	SP001028682	IPD90N06S4L06ATMA2	PG-T0252-3-11	60	6.1	1.2 ... 2.2	90
IPD90N06S4-07	SP001028680	IPD90N06S407ATMA2	PG-T0252-3-11	60	6.9	2.0 ... 4.0	90
IPD50N06S4L-08	SP001028664	IPD50N06S4L08ATMA2	PG-T0252-3-11	60	7.9	1.2 ... 2.2	50
IPD50N06S4-09	SP001028662	IPD50N06S409ATMA2	PG-T0252-3-11	60	9.0	2.0 ... 4.0	50
IPD50N06S4L-12	SP001028640	IPD50N06S4L12ATMA2	PG-T0252-3-11	60	12	1.2 ... 2.2	50
IPD30N06S4L-23	SP001028638	IPD30N06S4L23ATMA2	PG-T0252-3-11	60	23	1.2 ... 2.2	30
IPD25N06S4L-30	SP001028636	IPD25N06S4L30ATMA2	PG-T0252-3-11	60	30	1.2 ... 2.2	25
IPG20N06S4L-11	SP000705550	IPG20N06S4L11ATMA1	PG-TDS0N-8-4	60	2 x 11.2	1.2 ... 2.2	20
IPG20N06S4L-14	SP001028632	IPG20N06S4L14ATMA2	PG-TDS0N-8-4	60	2 x 13.7	1.2 ... 2.2	20
IPG20N06S4-15	SP001028634	IPG20N06S415ATMA2	PG-TDS0N-8-4	60	2 x 15.5	2.0 ... 4.0	20
IPG20N06S4L-26	SP000705588	IPG20N06S4L26ATMA1	PG-TDS0N-8-4	60	2 x 26	1.2 ... 2.2	20
IPI120N06S4-H1	SP001028784	IPI120N06S4H1AKSA2	PG-T0262-3-1	60	2.4	2.0 ... 4.0	120
IPI120N06S4-02	SP001028778	IPI120N06S402AKSA2	PG-T0262-3-1	60	2.8	2.0 ... 4.0	120
IPI120N06S4-03	SP001028772	IPI120N06S403AKSA2	PG-T0262-3-1	60	3.1	2.0 ... 4.0	120
IPI90N06S4L-04	SP001028760	IPI90N06S4L04AKSA2	PG-T0262-3-1	60	3.7	1.2 ... 2.2	90

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS\ (on)\ max}$	$V_{GS\ (th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

### 100V

BSB056N10NN3 G	SP000604540	BSB056N10NN3GXUMA1	CanPAK™ M-size	100	5.6	2.0 ... 3.5	83
BSC046N10NS3 G	SP000907922	BSC046N10NS3GATMA1	SuperSO8	100	4.6	2.0 ... 3.5	100
BSC060N10NS3 G	SP000446584	BSC060N10NS3GATMA1	SuperSO8	100	6.0	2.0 ... 3.5	90
BSC070N10NS3 G	SP000778082	BSC070N10NS3GATMA1	SuperSO8	100	7.0	2.0 ... 3.5	90
■ BSC079N10NS G	SP000379590	BSC079N10NSGATMA1	SuperSO8	100	7.9	2.0 ... 4.0	100
BSC082N10LS G	SP000379609	BSC082N10LSGATMA1	SuperSO8	100	8.2	1.2 ... 2.4	100
■ BSC100N10NSF G	SP000379595	BSC100N10NSFGATMA1	SuperSO8	100	10	2.0 ... 4.0	90
BSC105N10LSF G	SP000388502	BSC105N10LSFGATMA1	SuperSO8	100	10.5	1.2 ... 2.4	90
BSC109N10NS3 G	SP000778132	BSC109N10NS3GATMA1	SuperSO8	100	10.9	2.0 ... 3.5	63
BSC118N10NS G	SP000379599	BSC118N10NSGATMA1	SuperSO8	100	11.8	2.0 ... 4.0	71
BSC123N10LS G	SP000379612	BSC123N10LSGATMA1	SuperSO8	100	12.3	1.2 ... 2.4	71
■ BSC152N10NSF G	SP000379601	BSC152N10NSFGATMA1	SuperSO8	100	15.2	2.0 ... 4.0	63
BSC159N10LSF G	SP000379614	BSC159N10LSFGATMA1	SuperSO8	100	15.9	1.2 ... 2.4	63
BSC160N10NS3 G	SP000482382	BSC160N10NS3GATMA1	SuperSO8	100	16	2.0 ... 3.5	42
BSC196N10NS G	SP000379604	BSC196N10NSGATMA1	SuperSO8	100	19.6	2.0 ... 4.0	45
BSC205N10LS G	SP000379616	BSC205N10LSGATMA1	SuperSO8	100	20.5	1.2 ... 2.4	45
BSC252N10NSF G	SP000379608	BSC252N10NSFGATMA1	SuperSO8	100	25.2	2.0 ... 4.0	39
BSC265N10LSF G	SP000379618	BSC265N10LSFGATMA1	SuperSO8	100	26.5	1.2 ... 2.4	40
BSC440N10NS3 G	SP000482420	BSC440N10NS3GATMA1	SuperSO8	100	44	2.0 ... 3.5	18
BSC750N10ND G	SP000359610	BSC750N10NDGATMA1	SuperSO8 dual	100	75	2.0 ... 4.0	13
▼ BSF134N10NJ3 G	SP000604536	BSF134N10NJ3GXUMA1	CanPAK™ S-size	100	13.4	2.0 ... 3.5	40
BSZ160N10NS3 G	SP000482390	BSZ160N10NS3GATMA1	S3O8	100	16	2.0 ... 3.5	40
BSZ440N10NS3 G	SP000482442	BSZ440N10NS3GATMA1	S3O8	100	44	2.0 ... 3.5	18
IPA030N10N3 G	SP000464914	IPA030N10N3GXKSA1	TO-220 FullPAK	100	3.0	2.0 ... 3.5	79
IPA045N10N3 G	SP000478912	IPA045N10N3GXKSA1	TO-220 FullPAK	100	4.5	2.0 ... 3.5	64
IPA086N10N3 G	SP000485984	IPA086N10N3GXKSA1	TO-220 FullPAK	100	8.6	2.0 ... 3.5	45
IPA126N10N3 G	SP000485964	IPA126N10N3GXKSA1	TO-220 FullPAK	100	12.6	2.0 ... 3.5	35
IPA180N10N3 G	SP000480108	IPA180N10N3GXKSA1	TO-220 FullPAK	100	18	2.0 ... 3.5	19
IPB025N10N3 G	SP000469888	IPB025N10N3GATMA1	D²PAK 7pin	100	2.5	2.0 ... 3.5	180
IPB025N10N3 G	SP000939338	IPB025N10N3GE8187ATMA1	D²PAK 7pin	100	2.5	2.0 ... 3.5	180
IPB027N10N3 G	SP000506508	IPB027N10N3GATMA1	D²PAK	100	2.7	2.0 ... 3.5	120
IPB039N10N3 G	SP000482428	IPB039N10N3GATMA1	D²PAK 7pin	100	3.9	2.0 ... 3.5	160
IPB039N10N3 G	SP000939340	IPB039N10N3GE8187ATMA1	D²PAK 7pin	100	3.9	2.0 ... 3.5	160
IPB042N10N3 G	SP000446880	IPB042N10N3GATMA1	D²PAK	100	4.2	2.0 ... 3.5	100
IPB042N10N3 G	SP000939332	IPB042N10N3GE8187ATMA1	D²PAK	100	4.2	2.0 ... 3.5	100
IPB083N10N3 G	SP000458812	IPB083N10N3GATMA1	D²PAK	100	8.2	2.0 ... 3.5	80
IPB123N10N3 G	SP000485968	IPB123N10N3GATMA1	D²PAK	100	12.3	2.0 ... 3.5	58

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS\ (on)\ max}$	$V_{GS\ (th)}$	$I_D$
				V	mΩ	V	A

**N-Channel MOSFETs****200V**

BSC320N20NS3 G	SP000676410	BSC320N20NS3GATMA1	SuperSO8	200	32	2.0 ... 4.0	36
BSC900N20NS3 G	SP000781780	BSC900N20NS3GATMA1	SuperSO8	200	90	2.0 ... 4.0	15.2
BSC12DN20NS3 G	SP000781774	BSC12DN20NS3GATMA1	SuperSO8	200	125	2.0 ... 4.0	11.3
BSC22DN20NS3 G	SP000781778	BSC22DN20NS3GATMA1	SuperSO8	200	225	2.0 ... 4.0	7.0
BSZ900N20NS3 G	SP000781806	BSZ900N20NS3GATMA1	S3O8	200	90	2.0 ... 4.0	15.2
BSZ12DN20NS3 G	SP000781784	BSZ12DN20NS3GATMA1	S3O8	200	125	2.0 ... 4.0	11.3
BSZ22DN20NS3 G	SP000781794	BSZ22DN20NS3GATMA1	S3O8	200	225	2.0 ... 4.0	7.0
IPB107N20N3 G	SP000676406	IPB107N20N3GATMA1	D <sup>2</sup> PAK	200	10.7	2.0 ... 4.0	88
IPB107N20NA	SP000877674	IPB107N20NAATMA1	D <sup>2</sup> PAK	200	11	2.0 ... 4.0	88
IPB320N20N3 G	SP000691172	IPB320N20N3GATMA1	D <sup>2</sup> PAK	200	32	2.0 ... 4.0	34
IPD320N20N3 G	SP000677838	IPD320N20N3GBTMA1	DPAK	200	32	2.0 ... 4.0	34
BUZ30A H3045A	SP000736082	BUZ30AH3045AATMA1	D <sup>2</sup> PAK	200	130	2.1 ... 4.0	21
BUZ31 H3045A	SP000736084	BUZ31H3045AATMA1	D <sup>2</sup> PAK	200	200	2.1 ... 4.0	14.5
BUZ32 H3045A	SP000736086	BUZ32H3045AATMA1	D <sup>2</sup> PAK	200	400	2.1 ... 4.0	9.5
SPD07N20 G	SP000449008	SPD07N20GBTMA1	DPAK	200	400	2.1 ... 4.0	7
IPI110N20N3 G	SP000714304	IPI110N20N3GAKSA1	I <sup>2</sup> PAK	200	11	2.0 ... 4.0	65
IPI320N20N3 G	SP000714312	IPI320N20N3GAKSA1	I <sup>2</sup> PAK	200	32	2.0 ... 4.0	22
▼ BUZ31 H3046	SP000682994	BUZ31H3046XKSA1	I <sup>2</sup> PAK	200	200	2.1 ... 4.0	14.5
BUZ73A H3046	SP000683006	BUZ73AH3046XKSA1	I <sup>2</sup> PAK	200	600	2.1 ... 4.0	5.5
IPP110N20NA	SP000877672	IPP110N20NAAKSA1	TO-220	200	11	2.0 ... 4.0	88
IPP110N20N3 G	SP000677892	IPP110N20N3GXKSA1	TO-220	200	11.1	2.0 ... 4.0	88
IPP320N20N3 G	SP000677842	IPP320N20N3GXKSA1	TO-220	200	32	2.0 ... 4.0	34
BUZ30A H	SP000682990	BUZ30AHXKSA1	TO-220	200	130	2.1 ... 4.0	21
BUZ31 H	SP000682992	BUZ31HXKSA1	TO-220	200	200	2.1 ... 4.0	14.5
BUZ31L H	SP000682996	BUZ31LHXKSA1	TO-220	200	200	1.2 ... 2.0	13.5
BUZ32 H	SP000682998	BUZ32HXKSA1	TO-220	200	400	2.1 ... 4.0	9.5
BUZ73 H	SP000683000	BUZ73HXKSA1	TO-220	200	400	2.1 ... 4.0	7.0
BUZ73 H3046	SP000683002	BUZ73H3046XKSA1	TO-220	200	400	2.1 ... 4.0	7.0
BUZ73AL H	SP000683012	BUZ73ALHXKSA1	TO-220	200	400	1.2 ... 2.0	7.0
BUZ73L H	SP000683014	BUZ73LHXKSA1	TO-220	200	400	1.2 ... 2.0	7.0
BUZ73A H	SP000683004	BUZ73AHXKSA1	TO-220	200	600	2.1 ... 4.0	5.5

**240V**

BSP88	SP001058790	BSP89H6327XTSA1	SOT223	240	6000	0.6 ... 1.4	0.35
BSP89	SP001058794	BSP89H6327XTSA1	SOT223	240	6000	0.8 ... 1.8	0.35
BSS87	SP001047646	BSS87H6327FTSA1	SOT89	240	6000	0.8 ... 1.8	0.26
BSS131	SP000702620	BSS131H6327XTSA1	SOT23	240	14000	0.8 ... 1.8	0.11

**250V**

BSC600N25NS3 G	SP000676402	BSC600N25NS3GATMA1	SuperSO8	250	60	2.0 ... 4.0	25
BSC16DN25NS3 G	SP000781782	BSC16DN25NS3GATMA1	SuperSO8	250	165	2.0 ... 4.0	10.9
BSZ16DN25NS3 G	SP000781800	BSZ16DN25NS3GATMA1	S3O8	250	165	2.0 ... 4.0	10.9
BSZ42DN15NS3 G	SP000781796	BSZ42DN25NS3GATMA1	S3O8	250	425	2.0 ... 4.0	5.0
IPB200N25N3 G	SP000677896	IPB200N25N3GATMA1	D <sup>2</sup> PAK	250	20	2.0 ... 4.0	64
IPB600N25N3 G	SP000676408	IPB600N25N3GATMA1	D <sup>2</sup> PAK	250	60	2.0 ... 4.0	25
IPD600N25N3 G	SP000676404	IPD600N25N3GBTMA1	DPAK	250	60	2.0 ... 4.0	25
IPI200N25N3 G	SP000714308	IPI200N25N3GAKSA1	I <sup>2</sup> PAK	250	20	2.0 ... 4.0	64
IPI600N25N3 G	SP000714316	IPI600N25N3GAKSA1	I <sup>2</sup> PAK	250	60	2.0 ... 4.0	22
IPP200N25N3 G	SP000677894	IPP200N25N3GXKSA1	TO-220	250	20	2.0 ... 4.0	64
IPP600N25N3 G	SP000677832	IPP600N25N3GXKSA1	TO-220	250	60	2.0 ... 4.0	25

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS\ (on)\ max}$	$V_{GS\ (th)}$	$I_D$
				V	mΩ	V	A

**N-Channel MOSFETs****600V  
C6 Series  
(cont'd)**

◆ IPI60R380C6	SP000660630	IPI60R380C6XKSA1	I <sup>2</sup> PAK	600	380	2.5 ... 3.5	10.6
◆ IPP60R074C6	SP000898652	IPP60R074C6XKSA1	TO-220	600	74	2.5 ... 3.5	57.7
◆ IPP60R099C6	SP000687556	IPP60R099C6XKSA1	TO-220	600	99	2.5 ... 3.5	38
◆ IPP60R125C6	SP000685844	IPP60R125C6XKSA1	TO-220	600	125	2.5 ... 3.5	30
◆ IPP60R160C6	SP000652796	IPP60R160C6XKSA1	TO-220	600	160	2.5 ... 3.5	23.8
◆ IPP60R190C6	SP000621158	IPP60R190C6XKSA1	TO-220	600	190	2.5 ... 3.5	20.2
◆ IPP60R280C6	SP000645028	IPP60R280C6XKSA1	TO-220	600	280	2.5 ... 3.5	13.8
◆ IPP60R380C6	SP000645062	IPP60R380C6XKSA1	TO-220	600	380	2.5 ... 3.5	10.6
◆ IPP60R520C6	SP000645068	IPP60R520C6XKSA1	TO-220	600	520	2.5 ... 3.5	8.1
◆ IPP60R600C6	SP000645074	IPP60R600C6XKSA1	TO-220	600	600	2.5 ... 3.5	7.3
◆ IPP60R950C6	SP000629364	IPP60R950C6XKSA1	TO-220	600	950	2.5 ... 3.5	4.4
◆ IP60R1K4C6	SP000931536	IPW60R1K4C6XKSA1	TO-220	600	1400	2.5 ... 3.5	3.2
◆ IPW60R041C6	SP000718886	IPW60R041C6FKSA1	TO-247	600	41	2.5 ... 3.5	77.5
◆ IPW60R070C6	SP000645060	IPW60R070C6FKSA1	TO-247	600	70	2.5 ... 3.5	53
◆ IPW60R099C6	SP000641908	IPW60R099C6FKSA1	TO-247	600	99	2.5 ... 3.5	38
◆ IPW60R125C6	SP000641912	IPW60R125C6FKSA1	TO-247	600	125	2.5 ... 3.5	30
◆ IPW60R160C6	SP000652798	IPW60R160C6FKSA1	TO-247	600	160	2.5 ... 3.5	23.8
◆ IPW60R190C6	SP000621160	IPW60R190C6FKSA1	TO-247	600	190	2.5 ... 3.5	20.2
◆ IPW60R280C6	SP000645032	IPW60R280C6FKSA1	TO-247	600	280	2.5 ... 3.5	13.8
◆ IPU60R600C6	SP000931534	IPU60R600C6BKMA1	IPAK	600	600	2.5 ... 3.5	7.3
◆ IPU60R950C6	SP000931532	IPU60R950C6BKMA1	IPAK	600	950	2.5 ... 3.5	4.4
◆ IPU60R1K4C6	SP000931530	IPU60R1K4C6BKMA1	IPAK	600	1400	2.5 ... 3.5	3.2
◆ IPU60R2K0C6	SP000931528	IPU60R2K0C6BKMA1	IPAK	600	2000	2.5 ... 3.5	2.4

**600V  
CP Series**

IPA60R125CP	SP000095275	IPA60R125CPXKSA1	TO-220 FullPAK	600	125	2.5 ... 3.5	25
IPA60R165CP	SP000096437	IPA60R165CPXKSA1	TO-220 FullPAK	600	165	2.5 ... 3.5	21
IPA60R199CP	SP000094146	IPA60R199CPXKSA1	TO-220 FullPAK	600	199	2.5 ... 3.5	16
IPA60R250CP	SP000310226	IPA60R250CPXKSA1	TO-220 FullPAK	600	250	2.5 ... 3.5	12
IPA60R299CP	SP000096438	IPA60R299CPXKSA1	TO-220 FullPAK	600	299	2.5 ... 3.5	11
IPA60R385CP	SP000089316	IPA60R385CPXKSA1	TO-220 FullPAK	600	385	2.5 ... 3.5	9.0
IPA60R520CP	SP000405856	IPA60R520CPXKSA1	TO-220 FullPAK	600	520	2.5 ... 3.5	6.8
IPA60R600CP	SP000405884	IPA60R600CPXKSA1	TO-220 FullPAK	600	600	2.5 ... 3.5	6.1
IPB60R099CP	SP000088490	IPB60R099CPATMA1	D <sup>2</sup> PAK	600	99	2.5 ... 3.5	31
IPB60R125CP	SP000297368	IPB60R125CPATMA1	D <sup>2</sup> PAK	600	125	2.5 ... 3.5	25
IPB60R165CP	SP000096439	IPB60R165CPATMA1	D <sup>2</sup> PAK	600	165	2.5 ... 3.5	21
IPB60R199CP	SP000223256	IPB60R199CPATMA1	D <sup>2</sup> PAK	600	199	2.5 ... 3.5	16
IPB60R250CP	SP000358140	IPB60R250CPATMA1	D <sup>2</sup> PAK	600	250	2.5 ... 3.5	12
IPB60R299CP	SP000301161	IPB60R299CPATMA1	D <sup>2</sup> PAK	600	299	2.5 ... 3.5	11
IPB60R385CP	SP000228365	IPB60R385CPATMA1	D <sup>2</sup> PAK	600	385	2.5 ... 3.5	9.0
IPB60R520CP	SP000405868	IPB60R520CPATMA1	D <sup>2</sup> PAK	600	520	2.5 ... 3.5	6.8
IPB60R600CP	SP000405892	IPB60R600CPATMA1	D <sup>2</sup> PAK	600	600	2.5 ... 3.5	6.1
IPD60R385CP	SP000307381	IPD60R385CPBTMA1	DPAK	600	385	2.5 ... 3.5	9.0
IPD60R520CP	SP000405852	IPD60R520CPBTMA1	DPAK	600	520	2.5 ... 3.5	6.8
IPD60R600CP	SP000405878	IPD60R600CPBTMA1	DPAK	600	600	2.5 ... 3.5	6.1

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{S(AZ)}$ min. V	$R_{DS\ (on)}$ mΩ	$I_{L(nom)}$ min. A	$I_{L(SCp)}$ typ. A

## Smart High-Side Switches

### Two Channel PROFET™ for automotive applications

BTS4160DGA	SP000360284	BTS4160DGAXUMA1	PG-DSO-14-37	> 43	2 x 160	1.8	6.5
BTS5020-2EKA	SP000857482	BTS50202EKAXUMA2	PG-DSO-14-40 EP	> 24	2 x 20	7/5	50
BTS5030-2EKA	SP000389642	BTS50302EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 30	6/4	36
BTS5045-2EKA	SP000857484	BTS50452EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 45	4.5/3	25
BTS5090-2EKA	SP000639242	BTS50902EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 90	3.5/2.5	20
BTS5120-2EKA	SP000639244	BTS51202EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 120	2.5/2	9
BTS5180-2EKA	SP000639238	BTS51802EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 180	2/1.5	8
BTS5210G	SP000272327	BTS5210GXUMA1	PG-DSO-14-35	> 43	2 x 140	2.4	6.5
BTS5210L	SP000301612	BTS5210LAUMA1	PG-DSO-12-9	> 43	2 x 140	2.4	6.5
BTS5215L	SP000301613	BTS5215LAUMA1	PG-DSO-12-9	> 43	2 x 90	3.7	12
■ BTS5231-2GS	SP000281794	BTS52312GSXUMA1	PG-DSO-14-31	> 28	2 x 140	1.8	8
■ BTS5235-2G	SP000281079	BTS52352GXUMA1	PG-DSO-20-43	> 28	2 x 60	3.5	6
■ BTS5235-2L	SP000280715	BTS52352LAUMA1	PG-DSO-12-9	> 28	2 x 60	3.5	6
■ BTS5236-2GS	SP000280717	BTS52362GSXUMA1	PG-DSO-14-32	> 28	2 x 50	3.6	6
BTS5242-2L	SP000281082	BTS52422LAUMA1	PG-DSO-12-19	> 28	2 x 25	6.0	7/40 (adjust.)
BTS5246-2L	SP000281083	BTS52462LAUMA1	PG-DSO-12-19	> 28	2 x 19	6.0	7/40 (adjust.)
BTS723GW	SP000272332	BTS723GWXUMA1	PG-DSO-14	> 58	2 x 105	2.9	8
BTS740S2	SP000313545	BTS740S2XUMA1	PG-DSO-20-9	> 34	2 x 30	5.5	24
▼ BTS50040-2SFA	SP000851890	BTS500402SFAXUMA1	PG-DSO-36-44	> 28	2 x 4	11	130
▼ BTT6050-2EKA	SP000866750	BTT60502EKAXUMA1	PG-DSO-14-40 EP	> 36	2 x 100	4.5	38

### Two Channel PROFET™ for industrial applications

ITS612N1	SP000221233	ITS612N1HKSA1	PG-TO220-7-3	> 40	2 x 200	2.0	7.5
ITS612N1 E3230	SP000221234	ITS612N1E3230HKSA1	PG-TO220-7-230	> 40	2 x 200	2.0	7.5
ITS621L1	SP000219533	ITS621L1HKSA1	PG-TO220-7-3	> 40	2 x 100	3.0	14
ITS621L1 E3220	SP000221224	ITS621L1E3220HKSA1	PG-TO220-7-230	> 40	2 x 100	3.0	14
ITS5215L	SP000219826	ITS5215LCUMA1	PG-DSO-12-2	> 40	2 x 90	3.7	15

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
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## Industrial Stand-alone CAN and LIN Transceivers

IFX1021SJ	SP000870896	IFX1021SJXUMA1	PG-DSO-8	Single wire LIN-transceiver, 20-kbit/s transmission rate, bus wake-up capability, wake-up inputs, tape & reel
IFX1040SJ	SP000938316	IFX1040SJXUMA1	PG-DSO-8	High speed CAN-transceiver according ISO 11898-3/-5, 1-Mbit/s transmission rate, bus wake-up capability, wake-up inputs, tape & reel
IFX1050G	SP000613990	IFX1050GXUMA1	PG-DSO-8-16	High speed CAN-transceiver, 1-Mbit/s transmission rate, no bus wake-up capability, no wake-up inputs, tape & reel
IFX1050GVIO	SP000885580	IFX1050GVIOXUMA1	PG-DSO-8	High speed CAN-transceiver according ISO/DIS 11898, 1-Mbit/s transmission rate, no bus wake-up capability, no wake-up inputs, $V_{IO}$ input for voltage adaptation, tape & reel
IFX1054G	SP000613756	IFX1054GXUMA1	PG-DSO-14-13	Low speed fault tolerant CAN-transceiver, 125-Kbit/s transmission rate, bus wake-up capability, wake-up inputs, tape & reel

## Automotive Transceivers and SBCs

### Body System Basis Chips

TLE6263-3G	SP000314997	TLE62633GXUMA1	PG-DSO-28-27	Low speed CAN universal SBC with fault tolerant CAN-transceiver, 5-V voltage regulator, wake-up inputs, Reset generator, 8-bit SPI, tape & reel
TLE7263E	SP000075929	TLE7263EXUMA1	PG-DSO-36-14	Integrated high speed CAN, LIN, LDO and HS switch, tape & reel
TLE8261E	SP000317792	TLE8261EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, no LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8261-2E	SP000454466	TLE82612EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, no LIN, LDO and SPI, 3 limp home output, tape & reel
TLE8262E	SP000317793	TLE8262EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 1LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8262-2E	SP000454468	TLE82622EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 1LIN, LDO and SPI, 3 limp home output, tape & reel
TLE8263E	SP000317795	TLE8263EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 2LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8263-2E	SP000379937	TLE82632EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 2LIN, LDO and SPI, 3 limp home output, tape & reel
TLE8264E	SP000317796	TLE8264EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 3LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8264-2E	SP000379938	TLE82642EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 3LIN, LDO and SPI, 3 limp home output, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_{CEO}$ V	$I_C$ mA	$f_T$ GHz	$G$ dB	$f$ MHz

**RF Bipolar Transistors****Low Noise Si Transistors up to 2.5GHz**

BF517	3k*	SP000010958	BF517E6327HTSA1	SOT23	15	25	2.0	—
BFP181	3k*	SP000011013	BFP181E7764HTSA1	SOT143	12	20	8.0	16.5 1800
BFP182R	3k*	SP000011016	BFP182RE7764HTSA1	SOT143R	12	35	8.0	15 1800
BFP183	3k*	SP000011018	BFP183E7764HTSA1	SOT143	12	65	8.0	20 900
BFP183W	3k*	SP000745244	BFP183WH6327XTSA1	SOT343	12	65	8.0	20 900
BFR181	3k*	SP000011047	BFR181E6327HTSA1	SOT23	12	20	8.0	18 900
BFR181W	3k*	SP000750418	BFR181WH6327XTSA1	SOT323	12	20	8.0	18 900
BFR182	3k*	SP000011051	BFR182E6327XTSA1	SOT23	12	35	8.0	18 900
BFR182W	3k*	SP000750420	BFR182WH6327XTSA1	SOT323	12	35	8.0	18 900
BFR183	3k*	SP000011054	BFR183E6327HTSA1	SOT23	12	65	8.0	18.5 900
BFR183W	3k*	SP000750422	BFR183WH6327XTSA1	SOT323	12	65	8.0	18.5 900
BFR340F	3k*	SP000750426	BFR340FH6327XTSA1	TSFP-3-1	6.0	10	14.0	16 1800
BFR340L3	15k*	SP000013558	BFR340L3E6327XTMA1	TSLP-3-7	6.0	10	14.0	17 1800
BFR35AP	3k*	SP000011060	BFR35APE6327HTSA1	SOT23	12	30	4.9	15 900
BFR360F	3k*	SP000750428	BFR360FH6327XTSA1	TSFP-3-1	6.0	35	14.0	15.5 1800
BFR360F	3k*	SP000750442	BFR360FH6765XTSA1	TSFP-3-1	6.0	35	14.0	15.5 1800
BFR360L3	15k*	SP000013561	BFR360L3E6765XTMA1	TSLP-3-1	6.0	35	14.0	16.5 1800
BFR92P	3k*	SP000011062	BFR92PE6327HTSA1	SOT23	15	30	5.0	15 900
BFR92W	3k*	SP000750446	BFR92WH6327XTSA1	SOT323	15	30	5.0	15.5 900
BFS17P	3k*	SP000011073	BFS17PE6327HTSA1	SOT23	15	25	2.5	—
BFS17S	3k*	SP000750448	BFS17SH6327XTSA1	SOT363	15	25	2.5	—
BFS17W	3k*	SP000750450	BFS17WH6327XTSA1	SOT323	15	25	2.5	—
BFS481	3k*	SP000750462	BFS481H6327XTSA1	SOT363	12	20	8	19 900
BFS483	3k*	SP000750464	BFS483H6327XTSA1	SOT363	12	65	8	19 900

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_{CEO}$	$I_{CM}$	$h_{FE}$	at	$I_C$
				V	mA		mA	V

## General Purpose Transistors

### Single $I_c \leq 100\text{mA}$

BC847A	3k*	SP000010571	BC847AE6327HTSA1	SOT23	45	200	110 ... 220	2	5
BC847B	3k*	SP000010559	BC847BE6327HTSA1	SOT23	45	200	200 ... 450	2	5
BC847B	10k*	SP000010576	BC847BE6433HTMA1	SOT23	45	200	200 ... 450	2	5
BC847BL3	15k*	SP000013553	BC847BL3E6327XTMA1	TSLP-3-1	45	200	200 ... 450	2	5
BC847BW	3k*	SP000746930	BC847BWH6327XTSA1	SOT323	45	200	200 ... 450	2	5
BC847BW	10k*	SP000746932	BC847BWH6433XTMA1	SOT323	45	200	200 ... 450	2	5
BC847C	3k*	SP000010565	BC847CE6327HTSA1	SOT23	45	200	420 ... 800	2	5
BC847C	10k*	SP000010590	BC847CE6433HTMA1	SOT23	45	200	420 ... 800	2	5
BC847CW	3k*	SP000746934	BC847CWH6327XTSA1	SOT323	45	200	420 ... 800	2	5
BC847CW	3k*	SP000747286	BC847CWH6778XTSA1	SOT323	45	200	420 ... 800	2	5
BC847CW	10k*	SP000747284	BC847CWH6433XTMA1	SOT323	45	200	420 ... 800	2	5
BC848A	3k*	SP000010568	BC848AE6327HTSA1	SOT23	30	200	110 ... 220	2	5
BC848B	3k*	SP000010561	BC848BE6327HTSA1	SOT23	30	200	200 ... 450	2	5
BC848B	10k*	SP000010581	BC848BE6433HTMA1	SOT23	30	200	200 ... 450	2	5
BC848BL3	15k*	SP000013554	BC848BL3E6327XTMA1	TSLP-3-1	30	200	200 ... 450	2	5
BC848BW	3k*	SP000747410	BC848BWH6327XTSA1	SOT323	30	200	200 ... 450	2	5
BC848C	3k*	SP000010552	BC848CE6327HTSA1	SOT23	30	200	420 ... 800	2	5
BC848C	10k*	SP000010582	BC848CE6433HTMA1	SOT23	30	200	420 ... 800	2	5
BC848CW	3k*	SP000747412	BC848CWH6327XTSA1	SOT323	30	200	420 ... 800	2	5
BC849B	3k*	SP000010567	BC849BE6327HTSA1	SOT23	30	200	200 ... 450	2	5
BC849C	3k*	SP000010564	BC849CE6327HTSA1	SOT23	30	200	420 ... 800	2	5
BC849CW	3k*	SP000747414	BC849CWH6327XTSA1	SOT323	30	200	420 ... 800	2	5
BC850B	3k*	SP000010572	BC850BE6327HTSA1	SOT23	45	200	200 ... 450	2	5
BC850BW	3k*	SP000747416	BC850BWH6327XTSA1	SOT323	45	200	200 ... 450	2	5
BC850C	3k*	SP000010563	BC850CE6327HTSA1	SOT23	45	200	420 ... 800	2	5
BC850CW	3k*	SP000747418	BC850CWH6327XTSA1	SOT323	45	200	420 ... 800	2	5
BC857A	3k*	SP000010639	BC857AE6327HTSA1	SOT23	45	200	125 ... 250	2	5
BC857B	3k*	SP000010633	BC857BE6327HTSA1	SOT23	45	200	220 ... 475	2	5
BC857B	10k*	SP000010648	BC857BE6433HTMA1	SOT23	45	200	220 ... 475	2	5
BC857BL3	3k*	SP000013556	BC857BL3E6327XTMA1	TSLP-3-1	45	200	220 ... 475	2	5
BC857BW	3k*	SP000747448	BC857BWH6327XTSA1	SOT323	45	200	220 ... 475	2	5
BC857BW	3k*	SP000747450	BC857BWH6778XTSA1	SOT323	45	200	220 ... 475	2	5
BC857C	3k*	SP000010640	BC857CE6327HTSA1	SOT23	45	200	420 ... 800	2	5
BC857C	10k*	SP000010660	BC857CE6433HTMA1	SOT23	45	200	420 ... 800	2	5
BC857CW	3k	SP000747452	BC857CWH6327XTSA1	SOT323	45	200	420 ... 800	2	5
BC857CW	10k*	SP000747454	BC857CWH6433XTMA1	SOT323	45	200	420 ... 800	2	5
BC858A	3k*	SP000010636	BC858AE6327HTSA1	SOT23	30	200	125 ... 250	2	5
BC858B	3k	SP000010634	BC858BE6327HTSA1	SOT23	30	200	220 ... 475	2	5
BC858B	10k*	SP000010652	BC858BE6433HTMA1	SOT23	30	200	220 ... 475	2	5
BC858BW	3k	SP000747582	BC858BWH6327XTSA1	SOT323	30	200	220 ... 475	2	5
BC858C	3k	SP000010624	BC858CE6327HTSA1	SOT23	30	200	420 ... 800	2	5
BC858C	10k*	SP000010654	BC858CE6433HTMA1	SOT23	30	200	420 ... 800	2	5
BC858CW	3k	SP000747584	BC858CWH6327XTSA1	SOT323	30	200	420 ... 800	2	5
BC859C	3k	SP000010637	BC859CE6327HTSA1	SOT23	30	200	420 ... 800	2	5

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{CEO}$	$I_{CM}$	$h_{FE}$	at	$I_c$	$V_{CE}$
				V	mA		mA		V

## General Purpose Transistors

### Single $I_c \leq 500\text{mA}$

BC817K-16	3k*	SP000271788	BC817K16E6327HTSA1	SOT23	45	1000	100 ... 250	100	1
BC817K-16	10k*	SP000271829	BC817K16E6433HTMA1	SOT23	45	1000	100 ... 250	100	1
BC817K-16W	3k*	SP000786164	BC817K16WH6327XTSA1	SOT323	45	1000	100 ... 250	100	1
BC817K-25	3k*	SP000271875	BC817K25E6327HTSA1	SOT23	45	1000	160 ... 400	100	1
BC817K-25	10k*	SP000271879	BC817K25E6433HTMA1	SOT23	45	1000	160 ... 400	100	1
BC817K-25W	3k*	SP000746848	BC817K25WH6327XTSA1	SOT323	45	1000	160 ... 400	100	1
BC817K-25W	10k*	SP000786166	BC817K25WH6433XTMA1	SOT323	45	1000	160 ... 400	100	1
BC817K-40	3k*	SP000271895	BC817K40E6327HTSA1	SOT23	45	1000	250 ... 630	100	1
BC817K-40	10k*	SP000271898	BC817K40E6433HTMA1	SOT23	45	1000	250 ... 630	100	1
BC817K-40W	3k*	SP000746850	BC817K40WH6327XTSA1	SOT323	45	1000	250 ... 630	100	1
BC817SU	3k*	SP000296413	BC817SUE6327HTSA1	SC74	45	1000	160 ... 400	100	1
BC818K-16W	3k*	SP000746852	BC818K16WH6327XTSA1	SOT323	25	1000	100 ... 250	100	1
BC818K-40	3k*	SP000271908	BC818K40E6327HTSA1	SOT23	25	1000	250 ... 630	100	1
BCW66KF	3k*	SP000271902	BCW66KFE6327HTSA1	SOT23	45	1000	100 ... 250	100	1
BCW66KG	3k*	SP000271904	BCW66KGE6327HTSA1	SOT23	45	1000	160 ... 400	100	1
BCW66KH	3k*	SP000271906	BCW66KHE6327HTSA1	SOT23	45	1000	250 ... 630	100	1
BCW66KH	10x3k*	SP000271905	BCW66KHB6327HTLA1	SOT23	45	1000	250 ... 630	100	1
BCW67B	3k*	SP000015035	BCW67BE6327HTSA1	SOT23	32	1000	160 ... 400	100	1
BCW67C	3k*	SP000015037	BCW67CE6327HTSA1	SOT23	32	1000	250 ... 630	100	1
BCW68F	3k*	SP000015041	BCW68FE6327HTSA1	SOT23	45	1000	100 ... 250	100	1
BCW68G	3k*	SP000015039	BCW68GE6327HTSA1	SOT23	45	1000	160 ... 400	100	1
BCW68H	3k*	SP000015040	BCW68HE6327HTSA1	SOT23	45	1000	250 ... 630	100	1
SMBTA06	3k*	SP000011686	SMBTA06E6327HTSA1	SOT23	80	500	$\geq 100$	100	1
SMBTA06	10k*	SP000011688	SMBTA06E6433HTMA1	SOT23	80	500	$\geq 100$	100	1
SMBTA56	3k*	SP000011692	SMBTA56E6327HTSA1	SOT23	80	500	$\geq 100$	100	1
SMBTA56	10k*	SP000011695	SMBTA56E6433HTMA1	SOT23	80	500	$\geq 100$	100	1

### Dual $I_c \leq 500\text{mA}$

BC807U	3k*	SP000012395	BC807UE6327HTSA1	SC74	45	500	160 ... 400	100	1
BC817U	3k*	SP000012394	BC817UE6327HTSA1	SC74	45	1000	160 ... 400	100	1
BC817UPN	3k*	SP000012398	BC817UPNE6327HTSA1	SC74	45	1000	160 ... 400	100	1
SMBTA06UPN	3k*	SP000012393	SMBTA06UPNE6327HTSA1	SC74	80	500	$\geq 100$	100	1

\* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description			
				Frequency Band MHz	Modulation Type	Operating Temperature Range °C	ASK Sensitivity dBm

**Wireless Control****Receiver (single channel)**

TDA5200	SP000016381	TDA5200XUMA1	PG-TSSOP-28	434/868	ASK only	-40 ... +85	-110.0
TDA5201	SP000012902	TDA5201XUMA1	PG-TSSOP-28	315/345	ASK only	-40 ... +85	-112.0
TDA5210	SP000016384	TDA5210XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +105	-110.0
TDA5211	SP000016390	TDA5211XUMA1	PG-TSSOP-28	315/345	ASK/FSK	-40 ... +105	-113.0
TDA5212	SP000013430	TDA5212XUMA1	PG-TSSOP-28	915	ASK/FSK	-40 ... +85	-112.0
TDA5220	SP000014342	TDA5220XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +105	-110.0
TDA7200	SP000296473	TDA7200XUMA1	PG-TSSOP-28	434	ASK/FSK	-20 ... +70	-110.0
TDA7210	SP000524274	TDA7210XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +85	-110.0
TDA7210V	SP000698080	TDA7210VXUMA1	PG-VQFN-32	434/868	ASK/FSK	-40 ... +85	-115.0

**SmartLEWIS™ RX+ (single channel) High Sensitivity Receiver with Digital Baseband Processing**

TDA5235	SP000507674	TDA5235XUMA1	PG-TSSOP-28	315/434/ 868/915	ASK/FSK	-40 ... +105	-
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**Receiver (multi channel)**

TDA5221	SP000014343	TDA5221XUMA1	PG-TSSOP-28	315	ASK/FSK	-40 ... +105	-113.0
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**SmartLEWIS™RX (multi channel) Receiver with Digital Baseband Processing**

TDA5230	SP000076520	TDA5230XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +105	-108.0
TDA5231	SP000202847	TDA5231XUMA1	PG-TSSOP-28	315	ASK/FSK	-40 ... +105	-108.0

**SmartLEWIS™RX+ (multi channel) High Sensitivity Receiver with Digital Baseband Processing**

TDA5225	SP000507672	TDA5225XUMA1	PG-TSSOP-28	315/434/ 868/915	ASK/FSK	-40 ... +105	-
TDA5240	SP000550860	TDA5240XUMA1	PG-TSSOP-28	315/434/ 868/915	ASK/FSK	-40 ... +105	-

SMD = Surface Mounted Device

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## **Chip Card & Security ICs**

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# Summary of Types

Type	Ordering Code	Orderable Part Number	Page	Type	Ordering Code	Orderable Part Number	Page
BSC014N03MS G	SP000394681	BSC014N03MSGATMA1	89	BSC0925ND	SP000934752	BSC0925NDATMA1	87
BSC014N04LS	SP000871196	BSC014N04LSATMA1	90	BSC093N04LS G	SP000387929	BSC093N04LSGATMA1	90
BSC014N06NS	SP000924886	BSC014N06NSATMA1	91	BSC100N03MS G	SP000311515	BSC100N03MSGATMA1	89
BSC014NE2LSI	SP000911336	BSC014NE2LSIATMA1	86	BSC100N06LS3 G	SP000453664	BSC100N06LS3 GATMA1	91
BSC016N03LS G	SP000237663	BSC016N03LSGATMA1	87	BSC100N10NSF G	SP000379595	BSC100N10NSFGATMA1	94
BSC016N03MS G	SP000311502	BSC016N03MSGATMA1	89	BSC105N10LSF G	SP000388502	BSC105N10LSFGATMA1	94
BSC016N04LS G	SP000394801	BSC016N04LSGATMA1	90	BSC109N10NS3 G	SP000778132	BSC109N10NS3GATMA1	94
BSC016N06NS	SP000924882	BSC016N06NSATMA1	91	BSC110N06NS3 G	SP000453668	BSC110N06NS3GATMA1	91
BSC017N04NS G	SP000394684	BSC017N04NSGATMA1	90	BSC118N10NS G	SP000379599	BSC118N10NSGATMA1	94
BSC018N04LS G	SP000388293	BSC018N04LSGATMA1	90	BSC120N03LS G	SP000302848	BSC120N03LSGATMA1	87
BSC018NE2LS	SP000756336	BSC018NE2LSATMA1	86	BSC120N03MS G	SP000311516	BSC120N03MSGATMA1	89
BSC018NE2LSI	SP000906030	BSC018NE2LSIATMA1	86	BSC123N08NS3 G	SP000443916	BSC123N08NS3GATMA1	93
BSC019N02KS G	SP000307376	BSC019N02KSGAUMA1	86	BSC123N10LS G	SP000379612	BSC123N10LSGATMA1	94
BSC019N04NS G	SP000388299	BSC019N04NSGATMA1	90	BSC12D20NS3 G	SP000781774	BSC12D20NS3GATMA1	97
BSC020N03LS G	SP000237662	BSC020N03LSGATMA1	87	BSC130P03LS G	SP000359666	BSC130P03LSGATMA1	111
BSC020N03MS G	SP000311503	BSC020N03MSGATMA1	89	BSC150N03LD G	SP000359362	BSC150N03LDGATMA1	87
BSC024N02E2LS	SP000756342	BSC024N02LSATMA1	86	BSC152N10NSF G	SP000379601	BSC152N10NSFGATMA1	94
BSC025N03LS G	SP000269781	BSC025N03LSGATMA1	87	BSC159N10LSF G	SP000379614	BSC159N10LSFGATMA1	94
BSC025N03MS G	SP000311505	BSC025N03MSGATMA1	89	BSC160N10NS3 G	SP000482382	BSC160N10NS3GATMA1	94
BSC026N02KS G	SP000379664	BSC026N02KSGAUMA1	86	BSC16DN25NS3 G	SP000781782	BSC16DN25NS3GATMA1	97
BSC027N04LS G	SP000354810	BSC027N04LSGATMA1	90	BSC190N12NS3 G	SP000652752	BSC190N12NS3GATMA1	96
BSC028N06LS3 G	SP000453652	BSC028N06LS3GATMA1	91	BSC190N15NS3 G	SP000416636	BSC190N15NS3GATMA1	96
BSC028N06NS	SP000917416	BSC028N06NSATMA1	91	BSC196N10NS G	SP000379604	BSC196N10NSGATMA1	94
BSC030N03LS G	SP000237661	BSC030N03LSGATMA1	87	BSC205N10LS G	SP000379616	BSC205N10LSGATMA1	94
BSC030N03MS G	SP000311506	BSC030N03MSGATMA1	89	BSC22D20NS3 G	SP000781778	BSC22D20NS3GATMA1	97
BSC030N04NS G	SP000354811	BSC030N04NSGATMA1	90	BSC240N12NS3 G	SP000819812	BSC240N12NS3GATMA1	96
BSC030P03NS3 G	SP000442470	BSC030P03NS3GAUMA1	111	BSC252N10NSF G	SP000379608	BSC252N10NSFGATMA1	94
BSC031N06NS3 G	SP000451482	BSC031N06NS3GATMA1	91	BSC265N10LSF G	SP000379618	BSC265N10LSFGATMA1	94
BSC032NE2LS	SP000854378	BSC032NE2LSATMA1	86	BSC320N20NS3 G	SP000676410	BSC320N20NS3GATMA1	97
BSC034N03LS G	SP000475948	BSC034N03LSGATMA1	87	BSC340N08NS3 G	SP000447534	BSC340N08NS3GATMA1	93
BSC035N04LS G	SP000391503	BSC035N04LSGATMA1	90	BSC360N15NS3 G	SP000778134	BSC360N15NS3GATMA1	96
BSC036NE7NS3 G	SP000907920	BSC036NE7NS3GATMA1	93	BSC440N10NS3 G	SP000482420	BSC440N10NS3GATMA1	94
BSC039N06NS	SP000985386	BSC039N06NSATMA1	91	BSC520N15NS3 G	SP000521716	BSC520N15NS3GATMA1	96
BSC042N03LS G	SP000302864	BSC042N03LSGATMA1	87	BSC600N25NS3 G	SP000676402	BSC600N25NS3GATMA1	97
BSC042N03MS G	SP000311512	BSC042N03MSGATMA1	89	BSC750N10ND G	SP000359610	BSC750N10NDGATMA1	94
BSC042NE7NS3 G	SP000657440	BSC042NE7NS3GATMA1	93	BSC900N20NS3 G	SP000781780	BSC900N20NS3GATMA1	97
BSC046N02KS G	SP000379666	BSC046N02KSGAUMA1	86	BSD214SN	SP000917656	BSD214SNH6327XTSA1	86
BSC046N10NS3 G	SP000907922	BSC046N10NS3GATMA1	94	BSD223P	SP000924074	BSD223P6327XTSA1	112
BSC047N08NS3 G	SP000436372	BSC047N08NS3GATMA1	93	BSD235C	SP000917610	BSD235CH6327XTSA1	113
BSC050N03LS G	SP000269785	BSC050N03LSGATMA1	87	BSD235N	SP000917652	BSD235NH6327XTSA1	86
BSC050N03MS G	SP000311507	BSC050N03MSGATMA1	89	BSD314SPE	SP000917658	BSD314SPEH6327XTSA1	112
BSC050N04LS G	SP000354806	BSC050N04LSGATMA1	90	BSD316SN H6327	SP000917668	BSD316SNH6327XTSA1	87
BSC050NE2LS	SP000756340	BSC050NE2LSATMA1	86	BSD816SN	SP000917670	BSD816SNH6327XTSA1	86
BSC052N03LS	SP000807602	BSC052N03LSATMA1	87	BSD840N	SP000917654	BSD840NH6327XTSA1	86
BSC054N04NS G	SP000354808	BSC054N04NSGATMA1	90	BSF024N03LT3 G	SP000616988	BSF024N03LT3GXUMA1	87
BSC057N03LS G	SP000275113	BSC057N03LSGATMA1	87	BSF030NE2LQ	SP000756348	BSF030NE2LQXUMA1	86
BSC057N03MS G	SP000311513	BSC057N03MSGATMA1	89	BSF035NE2LQ	SP001034234	BSF035NE2LQXUMA1	86
BSC057N08NS3 G	SP000447542	BSC057N08NS3GATMA1	93	BSF045N03LQ3 G	SP000597842	BSF045N03LQ3GXUMA1	87
BSC059N04LS G	SP000391499	BSC059N04LSGATMA1	90	BSF050N03LQ3 G	SP000604522	BSF050N03LQ3GXUMA1	87
BSC060N10NS3 G	SP000446584	BSC060N10NS3GATMA1	94	BSF110N06NT3 G	SP000973760	BSF110N06NT3GXUMA1	91
BSC060P03NS3E G	SP000472984	BSC060P03NS3EGATMA1	111	BSF134N10NJ3 G	SP000604536	BSF134N10NJ3GXUMA1	94
BSC067N06LS3 G	SP000451084	BSC067N06LS3GATMA1	91	BSF450N7NH3	SP001019350	BSF450NE7NH3XUMA1	93
BSC070N10NS3 G	SP000778082	BSC070N10NS3GATMA1	94	BSL202SN	SP000257782	BSL202SNL6327HTSA1	86
BSC072N03LD G	SP000359607	BSC072N03LDGATMA1	87	BSL205N	SP000442386	BSL205NL6327HTSA1	86
BSC076N06NS3 G	SP000453656	BSC076N06NS3GATMA1	91	BSL207N	SP000442426	BSL207NL6327HTSA1	86
BSC077N12NS3 G	SP000652750	BSC077N12NS3GATMA1	96	BSL207SP	SP0009095796	BSL207SPL6327HTSA1	112
BSC079N03LSC G	SP000527424	BSC079N03LSCGATMA1	87	BSL211SP	SP000905797	BSL211SPL6327HTSA1	112
BSC079N10NS G	SP000379590	BSC079N10NSGATMA1	94	BSL214N	SP000442430	BSL214NL6327HTSA1	86
BSC080N03LS G	SP000275114	BSC080N03LSGATMA1	87	BSL215C	SP000442436	BSL215CL6327HTSA1	113
BSC080N03MS G	SP000311514	BSC080N03MSGATMA1	89	BSL215P	SP000442422	BSL215PL6327HTSA1	112
BSC080P03LS G	SP000359664	BSC080P03LSGATMA1	111	BSL302SN	SP000257783	BSL302SNL6327HTSA1	87
BSC082N10LS G	SP000379609	BSC082N10LSGATMA1	94	BSL306N	SP000442404	BSL306NL6327HTSA1	87
BSC084P03NS3 G	SP000473020	BSC084P03NS3GATMA1	111	BSL307SP	SP000905798	BSL307SPL6327HTSA1	112
BSC084P03NS3E G	SP000473012	BSC084P03NS3EGATMA1	111	BSL308C	SP000473910	BSL308CL6327HTSA1	113
BSC0901NS	SP000800248	BSC0901NSATMA1	87	BSL308PE	SP000472978	BSL308PEL6327HTSA1	112
BSC0901NSI	SP000819818	BSC0901NSIATMA1	87	BSL314PE	SP000473004	BSL314PEL6327HTSA1	112
BSC0902NS	SP000800246	BSC0902NSATMA1	87	BSL315P	SP000442408	BSL315PL6327HTSA1	112
BSC0902NSI	SP000854380	BSC0902NSIATMA1	87	BSL316C	SP000442412	BSL316CL6327HTSA1	113
BSC0904NSI	SP000854384	BSC0904NSIATMA1	87	BSL802SN	SP000442478	BSL802SNL6327HTSA1	86
BSC0906NS	SP000893360	BSC0906NSATMA1	87	BSL806N	SP000464844	BSL806NL6327HTSA1	91
BSC0908NS	SP000847024	BSC0908NSATMA1	87	BSO033N03MS G	SP000446072	BSO033N03MSGXUMA1	89
BSC0909NS	SP000832576	BSC0909NSATMA1	87	BSO040N03MS G	SP000446070	BSO040N03MSGXUMA1	89
BSC0909N03LS G	SP000275115	BSC0909N03LSGATMA1	87	BSO080P03NS3 G	SP000472996	BSO080P03NS3GXUMA1	112
BSC0909N03MS G	SP000313120	BSC0909N03MSGATMA1	89	BSO080P03NS3E G	SP000472992	BSO080P03NS3EGXUMA1	112
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BTM7750G	SP000306881	BTM7750GXUMA1	136	BTS3408G	SP000305177	BTS3408GXUMA1	125
BTM7750GP	SP000303751	BTM7750GPAUMA1	136	BTS3410G (Dual)	SP000305178	BTS3410GXUMA1	125
BTM7751G	SP000306882	BTM7751GXUMA1	136	BTS3800SL	SP000732200	BTS3800SLHTSA1	125
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BTN7970P	SP000355967	BTN7970PAKS1	137	BTS428L2	SP000506234	BTS428L2ATMA1	128
BTN7970S	SP000355961	BTN7970SAKS1	137	BTS4300SGA	SP000360280	BTS4300SGAXUMA1	127
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BTs131	SP000011204	BTS131NKS1	124	BTS50070-1TMB	SP000411774	BTS500701TMBAKSA1	129
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BTs141TC	SP000668254	BTS141TCBUMA1	125	BTS50085-1TMB	SP000385912	BTS500851TMBAKSA1	129
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BTs3046SDL	SP000438726	BTS3046SDLATMA1	125	BTS5210G	SP000272327	BTS5210GXUMA1	130
BTs3046SDR	SP000438732	BTS3046SDRATMA1	125	BTS5210L	SP000301612	BTS5210LAUMA1	130
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IGB30N60T	SP00095765	IGB30N60TATMA1	118	IKD15N60RF	SP000939368	IKD15N60RFBATMA1	120
IGB50N60T	SP000054922	IGB50N60TATMA1	118	IKI04N60T	SP000607046	IKI04N60TXKSA1	118
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IGW03N120H2	SP000014182	IGW03N120H2FKSA1	115	IKP40N65H5	SP001001720	IKP40N65H5XKSA1	117
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IGW25N120H3	SP000674424	IGW25N120H3FKSA1	116	IKW20N60H3	SP000702556	IKW20N60H3FKSA1	116
IGW25T120	SP000013887	IGW25T120FKSA1	118	IKW20N60T	SP000054886	IKW20N60TFKSA1	118
IGW30N100T	SP000380845	IGW30N100TFKSA1	120	IKW25N120H3	SP000674418	IKW25N120H3FKSA1	116
IGW30N60H3	SP000852242	IGW30N60H3FKSA1	116	IKW25T120	SP000013939	IKW25T120FKSA1	119
IGW30N60T	SP000054925	IGW30N60TFKSA1	118	IKW25T120T2	SP000244960	IKW25N120T2FKSA1	119
IGW40N120H3	SP000667510	IGW40N120H3FKSA1	116	IKW30N60H3	SP000703042	IKW30N60H3FKSA1	116
IGW40N60H3	SP000769926	IGW40N60H3FKSA1	116	IKW30N60T	SP000054887	IKW30N60TFKSA1	118
IGW40N65F5	SP000973424	IGW40N65F5FKSA1	117	IKW40N120H3	SP000674418	IKW40N120H3FKSA1	116
IGW40N65H5	SP001001742	IGW40N65H5FKSA1	117	IKW40N60H3	SP000769928	IKW40N60H3FKSA1	116
IGW40T120	SP000013886	IGW40T120FKSA1	118	IKW40N65F5	SP000973418	IKW40N65F5FKSA1	117
IGW50N60H3	SP000702548	IGW50N60H3FKSA1	116	IKW40N65H5	SP001001730	IKW40N65H5FKSA1	117

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IPP120N04S4-01	SP000705704	IPP120N04S401AKSA1	79	IPP65R190CFD	SP000881160	IPP65R190CFDXKSA1	107
IPP120N04S4-02	SP000764734	IPP120N04S402AKSA1	79	IPP65R190CFDA	SP000928266	IPP65R190CFDAAKSA1	108
IPP120N06S4-02	SP001028774	IPP120N06S402AKSA2	82	IPP65R190E6	SP000849876	IPP65R190E6XKSA1	108
IPP120N06S4-03	SP001028768	IPP120N06S403AKSA2	82	IPP65R280C6	SP000785058	IPP65R280C6XKSA1	107
IPP120N06S4-H1	SP001028780	IPP120N06S4H1AKSA2	82	IPP65R280E6	SP000795268	IPP65R280E6XKSA1	108
IPP120P04P4-04	SP000842278	IPP120P04P404AKSA1	84	IPP65R310CFD	SP000745028	IPP65R310CFDXKSA1	107
IPP120P04P4L-03	SP000842300	IPP120P04P4L03AKSA1	84	IPP65R310CFDA	SP000879438	IPP65R310CFDAAKSA1	108
IPP126N10N3 G	SP000683088	IPP126N10N3GXKSA1	95	IPP65R420CFD	SP000876824	IPP65R420CFDXKSA1	107
IPP12CN10L G	SP000680864	IPP12CN10LGXKSA1	95	IPP65R600C6	SP000661310	IPP65R600C6XKSA1	107
IPP139N08N3 G	SP000680870	IPP139N08N3GXKSA1	93	IPP65R600E6	SP000850500	IPP65R600E6XKSA1	108
IPP147N03L G	SP000266315	IPP147N03LGHKSA1	88	IPP65R660CFD	SP000745026	IPP65R660CFDXKSA1	107
IPP147N12N3 G	SP000652742	IPP147N12N3GXKSA1	96	IPP65R660CFDA	SP000875802	IPP65R660CFDAAKSA1	108
IPP16CN10L G	SP000680878	IPP16CN10LGXKSA1	95	IPP70N04S3-07	SP000279559	IPP70N04S307AKSA1	79
IPP180N10N3 G	SP000683090	IPP180N10N3GXKSA1	95	IPP70N04S4-06	SP000711480	IPP70N04S406AKSA1	79
IPP200N15N3 G	SP000680884	IPP200N15N3GXKSA1	96	IPP70N10S3-12	SP000407122	IPP70N10S312AKSA1	83
IPP200N25N3 G	SP000677894	IPP200N25N3GXKSA1	97	IPP70N10S3L-12	SP000427252	IPP70N10S3L12AKSA1	83
IPP22N03S4L-15	SP000275290	IPP22N03S4L15AKSA1	77	IPP70N10SL-16	SP000225708	IPP70N10S16AKSA1	83
IPP230N06L3 G	SP000680886	IPP230N06L3GXKSA1	92	IPP70P04P4-09	SP000735978	IPP70P04P409AKSA1	84
IPP320N20N3 G	SP000677842	IPP320N20N3GXKSA1	97	IPP77N06S2-12	SP000218172	IPP77N06S212AKSA1	81
IPP45N06S4-09	SP001028648	IPP45N06S409AKSA2	82	IPP80N03S4L-03	SP000275328	IPP80N03S4L03AKSA1	77
IPP45N06S4L-08	SP001028650	IPP45N06S4L08AKSA2	82	IPP80N03S4L-04	SP000274981	IPP80N03S4L04AKSA1	77
IPP45P03P4L-11	SP000396382	IPP45P03P4L11AKSA1	85	IPP80N04S2-04	SP000219054	IPP80N04S204AKSA1	79
IPP47N10S-33	SP000225706	IPP47N10S33AKSA1	83	IPP80N04S2-H4	SP000218169	IPP80N04S2H4AKSA1	79
IPP47N10S-L26	SP000225707	IPP47N10SLS26AKSA1	83	IPP80N04S2L-03	SP000219063	IPP80N04S2L03AKSA1	79
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IPP50R199CP	SP000236074	IPP50R199CPHKSA1	100	IPP80N04S4-03	SP000671756	IPP80N04S403AKSA1	79
IPP50R199CP	SP000680934	IPP50R199CPXKSA1	100	IPP80N04S4-04	SP000646196	IPP80N04S404AKSA1	79
IPP50R250CP	SP000680936	IPP50R250CPXKSA1	100	IPP80N04S4L-04	SP000646198	IPP80N04S4L04AKSA1	79
IPP50R280CE	SP000850810	IPP50R280CEXKSA1	99	IPP80N06S2-05	SP000218873	IPP80N06S205AKSA1	80
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IPP50R350CP	SP000236069	IPP50R350CPHKSA1	100	IPP80N06S2-09	SP000218740	IPP80N06S209AKSA1	80
IPP50R350CP	SP000680940	IPP50R350CPXKSA1	100	IPP80N06S2-H5	SP000218155	IPP80N06S2H5AKSA1	80
IPP50R380CE	SP000850818	IPP50R380CEXKSA1	99	IPP80N06S2L-05	SP000219000	IPP80N06S2L05AKSA1	80
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IPP50R520CP	SP000236068	IPP50R520CPHKSA1	100	IPP80N06S2L-11	SP000218175	IPP80N06S2L11AKSA1	81
IPP50R520CP	SP000680944	IPP50R520CPXKSA1	100	IPP80N06S2L-H5	SP000219067	IPP80N06S2LH5AKSA1	80
IPP530N15N3 G	SP000521722	IPP530N15N3GXKSA1	96	IPP80N06S4-05	SP001028712	IPP80N06S405AKSA2	82
IPP600N25N3 G	SP000677832	IPP600N25N3GXKSA1	97	IPP80N06S4-07	SP001028666	IPP80N06S407AKSA2	82
IPP60R074C6	SP000898652	IPP60R074C6XKSA1	103	IPP80N06S4L-05	SP001028716	IPP80N06S4L05AKSA2	82
IPP60R099C6	SP000687556	IPP60R099C6XKSA1	103	IPP80N06S4L-07	SP001028668	IPP80N06S4L07AKSA2	82
IPP60R099CP	SP000507021	IPP60R099CPXKSA1	104	IPP80N08S2-07	SP000219040	IPP80N08S207AKSA1	82
IPP60R099CPA	SP000315418	IPP60R099CPAAKS1	83	IPP80N08S2L-07	SP000219050	IPP80N08S2L07AKSA1	82
IPP60R125C6	SP000685844	IPP60R125C6XKSA1	103	IPP80P03P4-04	SP000396390	IPP80P03P404AKSA1	85
IPP60R125CP	SP000088488	IPP60R125CPXKSA1	104	IPP80P03P4-05	SP000396388	IPP80P03P405AKSA1	85
IPP60R160C6	SP000652796	IPP60R160C6XKSA1	103	IPP80P03P4-07	SP000396392	IPP80P03P4L07AKSA1	85
IPP60R165CP	SP000084279	IPP60R165CPXKSA1	104	IPP80P04P4-05	SP000652622	IPP80P04P405AKSA1	84
IPP60R190C6	SP000621158	IPP60R190C6XKSA1	103	IPP80P04P4-07	SP000842044	IPP80P04P407AKSA1	84
IPP60R190E6	SP000797373	IPP60R190E6XKSA1	105	IPP80P04P4L-04	SP000840200	IPP80P04P4L04AKSA1	84
IPP60R199CP	SP000084278	IPP60R199CPXKSA1	104	IPP80P04P4L-06	SP000842052	IPP80P04P4L06AKSA1	84
IPP60R1K4C6	SP000931536	IPP60R1K4C6XKSA1	103	IPP80P04P4L-08	SP000840212	IPP80P04P4L08AKSA1	84
IPP60R250CP	SP000358136	IPP60R250CPXKSA1	104	IPP90N04S4-02	SP000646200	IPP90N04S402AKSA1	79
IPP60R280C6	SP000645028	IPP60R280C6XKSA1	103	IPP90N06S4-04	SP001028750	IPP90N06S404AKSA2	82
IPP60R280E6	SP000797290	IPP60R280E6XKSA1	105	IPP90N06S4L-04	SP001028752	IPP90N06S4L04AKSA2	82
IPP60R299CP	SP000084280	IPP60R299CPXKSA1	104	IPP90R1K0C3	SP000683094	IPP90R1K0C3XKSA1	109
IPP60R380C6	SP000645062	IPP60R380C6XKSA1	103	IPP90R2K2C3	SP000683096	IPP90R1K2C3XKSA1	109
IPP60R380E6	SP000795310	IPP60R380E6XKSA1	105	IPP90R340C3	SP000683098	IPP90R340C3XKSA1	109
IPP60R385CP	SP000082281	IPP60R385CPXKSA1	104	IPP90R500C3	SP000683100	IPP90R500C3XKSA1	109
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IPP60R520C6	SP000645068	IPP60R520C6XKSA1	103	IPS040N03L G	SP000810846	IPS040N03LGAKMA1	88
IPP60R520CP	SP000405860	IPP60R520CPXKSA1	104	IPS050N03L G	SP000810848	IPS050N03LGAKMA1	88
IPP60R520E6	SP000797294	IPP60R520E6XKSA1	105	IPS060N03L G	SP000705724	IPS060N03LGAKMA1	88
IPP60R600C6	SP000645074	IPP60R600C6XKSA1	103	IPS075N03L G	SP000705726	IPS075N03LGAKMA1	88
IPP60R600CP	SP000405888	IPP60R600CPXKSA1	104	IPS090N03L G	SP000788216	IPS090N03LGAKMA1	88
IPP60R600E6	SP000797630	IPP60R600E6XKSA1	105	IPS105N03L G	SP000788218	IPS105N03LGAKMA1	88
IPP60R750E6	SP000842482	IPP60R750E6XKSA1	105	IPS135N03L G	SP000788220	IPS135N03LGAKMA1	88
IPP60R950C6	SP000629364	IPP60R950C6XKSA1	103	IPS50R520CP	SP000307420	IPS50R520CPBKMA1	100
IPP65R074C6	SP000898650	IPP65R074C6XKSA1	107	IPS65R1K4C6	SP000991120	IPS65R1K4C6AKMA1	107
IPP65R099C6	SP000895218	IPP65R099C6XKSA1	107	IPS65R950C6	SP000991122	IPS65R950C6AKMA1	107
IPP65R110CFD	SP000895226	IPP65R110CFDXKSA1	107	IPU135N08N3 G	SP000521642	IPU135N08N3GBKMA1	93
IPP65R110CFDA	SP000895234	IPP65R110CFDAKS1	108	IPU50R1K4CE	SP001022958	IPU50R1K4CEBKMA1	99
IPP65R150CFD	SP000907024	IPP65R150CFDXKSA1	107	IPU50R2K0CE	SP001053984	IPU50R2K0CEBKMA1	99
IPP65R150CFDA	SP000928272	IPP65R150CFDAKS1	108	IPU50R3K0CE	SP001022960	IPU50R3K0CEBKMA1	99

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SAB-C161PI-L25F CA-Step	SP000014362	C161PIL25FCABXUMA1	26	SAF-XC161CS-32F40F BB-A-Step	SP000224542	XC161CS32F40FBBAFXUMA1	21
SAB-C161PI-L25M CA-Step	SP000014367	C161PIL25MCABXUMA1	26	SAF-XC164CM-16F40F BA-Step	SP000258386	XC164CM16F40FBFXQMA1	22
SAB-C161PI-LF CA-Step	SP000014344	C161PILFCABXUMA1	26	SAF-XC164CM-8F40F AA-Step	SP000203865	XC164CM8F40FAAFXQMA1	21
SAB-C161PI-LF3V CA-Step	SP000014360	C161PILF3VCABXUMA1	26	SAF-XC164CM-8F40F AA-Step	SP000065635	XC164CM8F40FAAFXUMA1	21
SAB-C161PI-LM CA-Step	SP000014345	C161PILMCABXUMA1	26	SAF-XC164CS-16F40F BB-Step	SP000224553	XC164CS16F40FBFXQMA1	22
SAB-C161PI-LM3V CA-Step	SP000014365	C161PILM3VCABXUMA1	26	SAF-XC164CS-16F40F BB-Step	SP000224552	XC164CS16F40FBFXUMA1	22
SAB-C161S-L25M AA-Step	SP000014739	C161SL25MAABXUMA1	26	SAF-XC164CS-32F40F BB-A-Step	SP000224593	XC164CS32F40FBBAFXQMA1	22
SAB-C161S-LM3V AA-Step	SP000014946	C161SLM3VAABXUMA1	26	SAF-XC164CS-32F40F BB-A-Step	SP000224592	XC164CS32F40FBBAFXUMA1	22
SAB-C164CI-LM3V CA+-Step	SP000103494	C164CLM3VCABXUMA1	27	SAF-XC167CI-16F40F BB-Step	SP000224690	XC167CI16F40FBFXQMA1	23
SAB-C165-L25F HA-Step	SP000011591	C165L25FHABFQMA1	28	SAF-XC167CI-16F40F BB-Step	SP000224689	XC167CI16F40FBFXUMA1	23
SAB-C165-L25F HA-Step	SP000011592	C165L25FHABXUMA1	28	SAF-XC167CI-32F40F BB-A-Step	SP000224703	XC167CI32F40FBBAFXQMA1	23
SAB-C165-L25M HA-Step	SP000011593	C165L25MHABXQMA1	28	SAF-XC167CI-32F40F BB-A-Step	SP000224702	XC167CI32F40FBBAFXUMA1	23
SAB-C165-L25M HA-Step	SP000011594	C165L25MHABXUMA1	28	SAF-XC233A-56F80L AA-Step	SP000722428	XC233A56F80LAAXFUMA1	54
SAB-C165-LF HA-Step	SP000011595	C165LFHABXQMA1	28	SAF-XC278X-96F66L AC-Step	SP000369364	XC278X96F66LACKXUMA1	60
SAB-C165-LF HA-Step	SP000011596	C165LFHABXUMA1	28	SAF-XC822-1FRA AA-Step	SP000873390	XC8221FRAAFXUMA1	9
SAB-C165-LF3V HA-Step	SP000011597	C165LF3VHABXUMA1	28	SAF-XC822-1FRI AA-Step	SP000795354	XC8221FRIA邢XUMA1	9
SAB-C165-LM HA-Step	SP000011598	C165LMHABXQMA1	28	SAF-XC822M-1FRI AA-Step	SP000771768	XC822M1FRIA邢XUMA1	9
SAB-C165-LM HA-Step	SP000011599	C165LMHABXUMA1	28	SAF-XC822MT-1FRA AA-Step	SP000873396	XC822MT1FRIA邢XUMA1	9
SAB-C167CR-LM HA+-Step	SP000103462	C167CRLMHABXQLA1	29	SAF-XC822MT-1FRI AA-Step	SP000795358	XC822MT1FRIA邢XUMA1	9
SAB-C167CR-LM HA+-Step	SP000103463	C167CRLMHABXUMA1	29	SAF-XC822T-0FRI AA-Step	SP000795350	XC822T0FRIA邢XUMA1	9
SAB-C167CS-L40M CA-Step	SP000103471	C167CSL40MCABXQLA1	30	SAF-XC822T-1FRI AA-Step	SP000797572	XC822T1FRIA邢XUMA1	9
SAB-C167CS-L40M CA-Step	SP000103468	C167CSL40MCABXUMA1	30	SAF-XC824M-1FGI AA-Step	SP000771770	XC824M1FGIA邢XUMA1	9
SAB-C167CS-LM CA+-Step	SP000103483	C167CSLMCABXQLA1	29	SAF-XC824MT-1FGI AA-Step	SP000795362	XC824MT1FGIA邢XUMA1	9
SAB-C167CS-LM CA+-Step	SP000103484	C167CSLMCABXUMA1	29	SAF-XC835MT-2FGI AB-Step	SP000843552	XC835MT2FGIA邢XUMA1	10
SAB-C167SR-LM HA+-Step	SP000103456	C167SRSLMHABXQLA1	30	SAF-XC836-2FRI AB-Step	SP000843562	XC8362FRIA邢XUMA1	10
SAB-C167SR-LM HA+-Step	SP000103457	C167SRSLMHABXUMA1	30	SAF-XC836M-1FRI AB-Step	SP000843556	XC836M1FRIA邢XUMA1	10
SAB-C505CA-4EM CA-Step	SP000106391	C505CA4EMCABXQMA1	20	SAF-XC836M-2FRI AB-Step	SP000843558	XC836M2FRIA邢XUMA1	10
SAB-C505CA-4EM CA-Step	SP000106392	C505CA4EMCABXUMA1	20	SAF-XC836MT-2FRI AB-Step	SP000843560	XC836MT2FRIA邢XUMA1	10
SAE0800G	SP000697948	SAE800GXLLA1	153	SAF-XC836T-2FRI AB-Step	SP000843554	XC836T2FRIA邢XUMA1	10
SAE0800G	SP000783572	SAE800GGEFXUMA2	153	SAF-XC866-1FRI AB-Step	SP000244527	XC8661FRIA邢XUMA1	11
SAC-F161CS-LF CA-Step	SP000106865	C161CSLFCFXQMA1	24	SAF-XC866-2FRI BE-Step	SP000281796	XC8662FRABEFXUMA1	11
SAC-F161CS-LF CA-Step	SP000106866	C161CSLFCFXUMA1	24	SAF-XC866-2FRI BE-Step	SP000245777	XC8662FRABEFXUMA1	11
SAC-F161K-LM HA-Step	SP000011620	C161KLHMHAFXQMA1	25	SAF-XC866-2RRA AB-Step	SP000232712	XC8662RRAABAZZZA1	12
SAC-F161K-LM3V HA-Step	SP000011621	C161KLM3VHAFXUMA1	25	SAF-XC866-4FRA BE-Step	SP000281799	XC8664FRABEFXUMA1	11
SAC-F161O-LM HA-Step	SP000011622	C161OLMHAFXQMA1	25	SAF-XC866-4FRI BE-Step	SP000245780	XC8664FRIA邢XUMA1	12
SAC-F161O-LM HA-Step	SP000011623	C161OLMHAFXUMA1	25	SAF-XC866-4RRA AB-Step	SP000232710	XC8664RRAABAZZZA1	12
SAC-F161O-LM3V HA-Step	SP000011624	C161OLM3VHAFXUMA1	25	SAF-XC878-13FFA 5V AC-Step	SP000756808	XC87813FFA5VACFXUMA1	14
SAC-F161PI-L25F CA-Step	SP000014363	C161PIL25FCAFXUMA1	26	SAF-XC878-16FF1 5V AC-Step	SP000696772	XC87816FF15VACFXUMA1	14
SAC-F161PI-L25M CA-Step	SP000014368	C161PIL25MCAFXUMA1	26	SAF-XC878CM-16FFA 5V AC-Step	SP000772210	XC878CM16FFA5VACFXUMA1	14
SAC-F161PI-LF CA-Step	SP000014359	C161PILFCAFXUMA1	26	SAF-XC878CM-16FF1 3V3 AC-Step	SP000697886	XC878CM16FF13V3ACFXUMA1	14
SAC-F161PI-LF3V CA-Step	SP000014361	C161PILF3VCAFXUMA1	26	SAF-XC878CM-16FF1 5V AC-Step	SP000697880	XC878CM16FF15VACFXUMA1	14
SAC-F161PI-LM HA-Step	SP000014364	C161PILMCAFXUMA1	26	SAF-XC878M-13FFA 3V3 AC-Step	SP000696774	XC878M13FFA3V3ACFXUMA1	14
SAC-F161PI-LM3V CA-Step	SP000014366	C161PILM3VCAFXUMA1	26	SAF-XC878M-16FF1 3V3 AC-Step	SP000696778	XC878M16FF13V3ACFXUMA1	14
SAC-F161S-L25M AA-Step	SP000014947	C161SL25MAAFXUMA1	26	SAF-XC878M-16FF1 5V AC-Step	SP000696780	XC878M16FF15VACFXUMA1	14
SAC-F161S-LM3V AA-Step	SP000014948	C161SLM3VAAFXUMA1	26	SAF-XC886-6FF1 5V AC-Step	SP000607048	XC8866FF15VACFXUMA1	15
SAC-F164CI-8E25M DB-Step	SP000104053	C164CI8E25MDBFXQMA1	27	SAF-XC886-8FF1 5V AC-Step	SP000607054	XC8868FF15VACFXUMA1	15
SAC-F164CI-8E25M DB-Step	SP000104054	C164CI8E25MDBFXUMA1	27	SAF-XC886C-6FFA 5V AC-Step	SP000607068	XC886C6FFA5VACFXUMA1	15
SAC-F164CI-8EM CB-Step	SP000103498	C164CI8EMCBFXQMA1	27	SAF-XC886C-6FF1 5V3 AC-Step	SP000655548	XC886C6FF13V3ACFXUMA1	15
SAC-F164CI-8EM CB-Step	SP000103499	C164CI8EMCBFXUMA1	27	SAF-XC886C-6FF1 5V AC-Step	SP000607056	XC886C6FF15VACFXUMA1	15
SAC-F164CI-8EM DB-Step	SP000104055	C164CI8EMDBFXQMA1	27	SAF-XC886C-8FF1 5V AC-Step	SP000607010	XC886C8FF15VACFXUMA1	15
SAC-F164CI-8EM DB-Step	SP000104056	C164CI8EMDBFXUMA1	27	SAF-XC886CM-6RFA	SP000254732	XC886CM6RFAFZAA1	16
SAC-F164CI-8RM CR-Step	SP000957756	C164CI8RMCFAZZA1	27	SAF-XC886CM-8FF1 5V AC-Step	SP000607014	XC886CM8FF15VACFXUMA1	17
SAC-F164CI-LM CA+-Step	SP000103495	C164CILMCAFXUMA1	27	SAF-XC886CM-8RFA AA-Step	SP000235443	XC886CM8RFAAAFFZAA1	17
SAC-F164CM-4EF AB-Step	SP000104062	C164CM4EFABFXUMA1	28	SAF-XC886L-6FFA 5V AC-Step	SP000657428	XC886L6FFA5VACFXUMA1	17
SAC-F165-L25F HA-Step	SP000012870	C165L25FHABXUMA1	28	SAF-XC886LM-6FF1 5V AC-Step	SP000607050	XC886LM6FF15VACFXUMA1	17
SAC-F165-L25M HA-Step	SP000011629	C165L25MHABXQMA1	28	SAF-XC886LM-6FF1 5V AC-Step	SP000607052	XC886LM6FF15VACFXUMA1	17
SAC-F165-L25M HA-Step	SP000011630	C165L25MHABXUMA1	28	SAF-XC888-6FF1 5V AC-Step	SP000607062	XC8886FF15VACFXUMA1	18
SAC-F165-LF HA-Step	SP000011631	C165LFHABXUMA1	28	SAF-XC888-8FF1 5V AC-Step	SP000646588	XC8888FF15VACFXUMA1	18
SAC-F165-LF3V HA-Step	SP000011632	C165LF3VHABXUMA1	28	SAF-XC888CLM-8FF1 5V AC-Step	SP000253397	XC888CLM8FF15VACFXUMA1	18
SAC-F165-LM HA-Step	SP000011633	C165LMHABXQMA1	28	SAF-XC888CM-6RFA	SP000257476	XC888CM6RFAFZAA1	19
SAC-F165-LM HA-Step	SP000011634	C165LMHABXUMA1	28	SAF-XC888CM-8FF1 3V3 AC-Step	SP000607084	XC888CM8FF13V3ACFXUMA1	19
SAC-F165-LM3V HA-Step	SP000011635	C165LMLM3VHABXUMA1	28	SAF-XC888CM-8FF1 5V AC-Step	SP000655550	XC888CM8FF15VACFXUMA1	19
SAC-F167CR-LM HA+-Step	SP0000103464	C167CRLMHABXQLA1	29	SAF-XC888CM-8RFA AA-Step	SP000245812	XC888CM8RFAAAFFZAA1	19
SAC-F167CS-L16M3V CA-Step	SP0000103465	C167CSL16M3VCAFXQLA1	29	SAF-XC888LM-6FF1 3V3 AC-Step	SP000307472	XC888LM6FF15VACFXUMA1	19
SAC-F167CS-L16M3V CA-Step	SP0000103470	C167CSL16M3VCAFXUMA1	29	SAF-XC888LM-8FF1 5V AC-Step	SP000607064	XC888LM8FF15VACFXUMA1	19
SAC-F167CS-L33M CA-Step	SP0000103485	C167CSL33MCAFXQLA1	29	SAF-XE160U-4F66R AA-Step	SP000859274	XE160U4F66RAAFXUMA1	31
SAC-F167CS-L33M CA-Step	SP0000103486	C167CSL33MCAFXUMA1	29	SAF-XE160U-8FF6R AA-Step	SP000859278	XE160U8FF6RAAFXUMA1	31
SAC-F167CR-LM CA+-Step	SP0000103487	C167CSLMCAFXQLA1	29	SAF-XE161FL-12F80V AA-Step	SP000859298	XE161FL12F80VAAFXUMA1	31
SAC-F167CS-LM CA-Step	SP0000103488	C167CSLMCAFXUMA1	29	SAF-XE161FL-20F80V AA-Step	SP000859290	XE161FL20F80VAAFXUMA1	32
SAC-F167CS-LM CA-Step	SP0000103489	C167CSLMCAFXUMA1	29	SAF-XE161FU-4F66V AA-Step	SP000859282	XE161FU4F66VAAFXUMA1	32
SAC-F167CS-LM CA-Step	SP0000103490	C167CSLMCAFXQMA1	29	SAF-XE161FU-8FF6V AA-Step	SP000859286	XE161FU8FF6VAAFXUMA1	32
SAC-F167CS-LM CA-Step	SP0000103491	C167CSLMCAFXUMA1	29	SAF-XE161FU-8FF6V AA-Step	SP000859288	XE161FU8FF6VAAFXUMA1	32
SAC-F167CS-LM CA-Step	SP0000103492	C167CSLMCAFXQMA1	29	SAF-XE161H-12F80V AA-Step	SP000859302	XE161H12F80VAAFXUMA1	32
SAC-F167CS-LM CA-Step	SP0000103493	C167CSLMCAFXUMA1	29	SAF-XE161H-20F80V AA-Step	SP000966484	XE161H20F80VAAFXLXA1	32
SAC-F167CS-LM CA-Step	SP0000103494	C167CSLMCAFXQMA1	29	SAF-XE161H-20F80V AA-Step	SP000859294	XE161H20F80VAAFXUMA1	32
SAC-F167CS-LM CA-Step	SP0000103495	C167CSLMCAFXUMA1	29	SAF-XE162EL-12F80L AA-Step	SP000859314	XE162EL12F80LAAFXQSA1	33
SAC-F167CS-LM CA-Step	SP0000103496	C167CSLMCAFXQMA1	29	SAF-XE162EL-20F80L AA-Step	SP000859306	XE162EL20F80LAAFXQSA1	33
SAC-F167CS-LM CA-Step	SP0000103497	C167CSLMCAFXUMA1	29	SAF-XE162FM-24F80L AA-Step	SP000397634	XE162FM24F80VAAFXUMA1	33
SAC-F167CS-LM CA-Step	SP0000103498	C167CSLMCAFXQMA1	29	SAF-XE162FM-72F80L AA-Step	SP000397630	XE162FM72F80VAAFXUMA1	33