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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	Last Time Buy
Core Processor	XC800
Core Size	8-Bit
Speed	24MHz
Connectivity	I ² C, SSC, UART/USART
Peripherals	Brown-out Detect/Reset, LED, POR, PWM, WDT
Number of I/O	13
Program Memory Size	2KB (2K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	512 x 8
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V
Data Converters	A/D 4x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	-
Package / Case	-
Supplier Device Package	-
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/xc822mt0fraaakxuma1

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 16-bit				
XC2000 Family				
XC223x Series (Body)				
(cont'd)				
SAK-XC2238N-24F40L AA-Step	SP000720844	XC2238N24F40LAAKXUMA1	PG-LQFP-64-13	as SAK-XC2236N-40F80L, 192-Kbyte on-chip program memory, 8-Kbyte on-chip program/data SRAM (PSRAM), six Full-CAN nodes, 40-MHz clock frequency, tape & reel
SAK-XC2238N-40F40L AA-Step	SP000691244	XC2238N40F80LAAKXUMA1	PG-LQFP-64-13	as SAK-XC2236N-24F40L, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), tape & reel

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

20V

BSD214SN	SP000917656	BSD214SNH6327XTSA1	SOT363	20	140	0.7 ... 1.2	1.5
BSD816SN	SP000464868	BSD816SNL6327HTSA1	SOT363	20	160	0.3 ... 0.95	1.4
BSD816SN	SP000917670	BSD816SNH6327XTSA1	SOT363	20	160	0.3 ... 0.95	1.4
BSD235N	SP000917652	BSD235NH6327XTSA1	SOT363 dual	20	350	0.7 ... 1.2	0.95
BSD840N	SP000917654	BSD840NH6327XTSA1	SOT363 dual	20	400	0.7 ... 1.2	0.95
BSC019N02KS G	SP000307376	BSC019N02KSGAUMA1	SuperSO8	20	1.95	0.3 ... 0.75	0.88
BSC026N02KS G	SP000379664	BSC026N02KSGAUMA1	SuperSO8	20	2.6	0.7 ... 1.2	100
BSC046N02KS G	SP000379666	BSC046N02KSGAUMA1	SuperSO8	20	4.6	0.7 ... 1.2	80
BSR202N	SP000257784	BSR202NL6327HTSA1	SC59	20	21	0.7 ... 1.2	3.1
BSR802N	SP000442484	BSR802NL6327HTSA1	SC59	20	23	0.3 ... 0.75	3.7
▼ BSL802SN	SP001101012	BSL802SNH6327XTSA1	TSOP6	20	22	0.3 ... 0.75	7.5
▼ BSL202SN	SP001100644	BSL202SNH6327XTSA1	TSOP6	20	36	0.7 ... 1.2	7.5
▼ BSL205N	SP001100646	BSL205NH6327XTSA1	TSOP6 dual	20	50	0.6 ... 1.2	2.5
▼ BSL207N	SP001100648	BSL207NH6327XTSA1	TSOP6 dual	20	70	0.7 ... 1.2	2.1
▼ BSL214N	SP001100658	BSL214NH6327XTSA1	TSOP6 dual	20	140	0.7 ... 1.2	1.5
BSO330N02K G	SP000380284	BSO330N02KGFUMA1	SO-8	20	30	0.7 ... 1.2	5.4
BSS205N	SP000929180	BSS205NH6327XTSA1	SOT23	20	50	0.7 ... 1.2	2.5
▼ BSS806NE	SP000999336	BSS806NEH6327XTSA1	SOT23	20	57	0.3 ... 0.75	2.3
BSS806N	SP000928952	BSS806NH6327XTSA1	SOT23	20	57	0.3 ... 0.75	2.3
BSS214N	SP000928936	BSS214NH6327XTSA1	SOT23	20	140	0.7 ... 1.2	1.5
BSS214NW	SP000917560	BSS214NWH6327XTSA1	SOT323	20	140	0.7 ... 1.2	1.5
BSS816NW	SP000917562	BSS816NWH6327XTSA1	SOT323	20	160	0.3 ... 0.75	1.4

25V

BSB008NE2LX	SP000880866	BSB008NE2LXXUMA1	CanPAK™ M-size	25	0.8	1.2 ... 2.0	180
BSB012NE2LX	SP000756344	BSB012NE2LXXUMA1	CanPAK™ M-size	25	1.2	1.2 ... 2.0	180
BSB012NE2LXI	SP001034232	BSB012NE2LXIXUMA1	CanPAK™ M-size	25	1.2	1.2 ... 2.0	180
BSB013NE2LXI	SP000756346	BSB013NE2LXIXUMA1	CanPAK™ M-size	25	1.3	1.2 ... 2.0	163
BSC009NE2LS	SP000893362	BSC009NE2LSATMA1	SuperSO8	25	0.9	1.2 ... 2.0	100
BSC010NE2LS	SP000776124	BSC010NE2LSATMA1	SuperSO8	25	1.0	1.2 ... 2.0	100
BSC010NE2LSI	SP000854376	BSC010NE2LSIATMA1	SuperSO8	25	1.05	1.2 ... 2.0	100
BSC014NE2LSI	SP000911336	BSC014NE2LSIATMA1	SuperSO8	25	1.4	1.2 ... 2.0	100
BSC018NE2LS	SP000756336	BSC018NE2LSATMA1	SuperSO8	25	1.8	1.2 ... 2.0	100
BSC018NE2LSI	SP000906030	BSC018NE2LSIATMA1	SuperSO8	25	1.8	1.2 ... 2.0	100
BSC024NE2LS	SP000756342	BSC024NE2LSATMA1	SuperSO8	25	2.4	1.2 ... 2.0	100
BSC032NE2LS	SP000854378	BSC032NE2LSATMA1	SuperSO8	25	3.2	1.2 ... 2.0	84
BSC050NE2LS	SP000756340	BSC050NE2LSATMA1	SuperSO8	25	5.0	1.2 ... 2.0	58
BSC0911ND	SP000934746	BSC0911NDATMA1	PowerStage 5x6	25	3.2/1.2	1.2 ... 2.0	40
BSF030NE2LQ	SP000756348	BSF030NE2LQXUMA1	CanPAK™ S-size	25	3.0	1.2 ... 2.0	75
BSF035NE2LQ	SP001034234	BSF035NE2LQXUMA1	CanPAK™ S-size	25	3.5	1.2 ... 2.0	69
▼ BSN011NE2LS	SP001074736	BSN011NE2LSXUSA1	Blade 3x3	25	1.1	1.2 ... 2.0	50
▼ BSN011NE2LSI	SP001074738	BSN011NE2LSIXUSA1	Blade 3x3	25	1.1	1.2 ... 2.0	50
▼ BSN045NE2LS	SP001074744	BSN045NE2LSXUSA1	Blade 3x3	25	4.5	1.2 ... 2.0	50
BSZ018NE2LS	SP000756338	BSZ018NE2LSATMA1	S3O8	25	1.8	1.2 ... 2.0	40
BSZ018NE2LSI	SP000906032	BSZ018NE2LSIATMA1	S3O8	25	1.8	1.2 ... 2.0	40
BSZ036NE2LS	SP000854572	BSZ036NE2LSATMA1	S3O8	25	3.6	1.2 ... 2.0	40
BSZ060NE2LS	SP000776122	BSZ060NE2LSATMA1	S3O8	25	6.0	1.2 ... 2.0	40

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

60V

(cont'd)

IPD053N06N	SP000962138	IPD053N06NATMA1	DPAK	60	5.3	2.8	45
IPD079N06L3 G	SP000453626	IPD079N06L3GBTMA1	DPAK	60	7.9	1.2 ... 2.2	50
IPD088N06N3 G	SP000453620	IPD088N06N3GBTMA1	DPAK	60	8.8	2.0 ... 4.0	50
■ IPD127N06L G	SP000443740	IPD127N06LGBTMA1	DPAK	60	12.7	1.2 ... 2.0	50
■ IPD220N06L3 G	SP000453644	IPD220N06L3GBTMA1	DPAK	60	22	1.2 ... 2.2	30
IPD350N06L G	SP000443746	IPD350N06LGBTMA1	DPAK	60	35	1.2 ... 2.0	29
IPD400N06L G	SP000443744	IPD400N06NGBTMA1	DPAK	60	40	2.0 ... 4.0	27
IPD640N06L G	SP000443766	IPD640N06LGBTMA1	DPAK	60	64	1.2 ... 2.0	18
IPI020N06N	SP000962132	IPI020N06NAKSA1	I ² PAK	60	2.0	2.8	120
IPI024N06N3 G	SP000680644	IPI024N06N3GXKSA1	I ² PAK	60	2.1	2.0 ... 4.0	120
IPI029N06N	SP000962134	IPI029N06NAKSA1	I ² PAK	60	2.9	2.8	100
IPI032N06N3 G	SP000680650	IPI032N06N3GAKSA1	I ² PAK	60	2.9	2.0 ... 4.0	120
IPI040N06N3 G	SP000680656	IPI040N06N3GXKSA1	I ² PAK	60	4.0	2.0 ... 4.0	90
▼ IPI084N06L3 G	SP001065242	IPI084N06L3GXKSA1	I ² PAK	60	8.4	1.2 ... 2.2	50
IPP020N06N	SP000917406	IPP020N06NAKSA1	TO-220	60	2.0	2.8	120
IPP024N06N3 G	SP000680764	IPP024N06N3GXKSA1	TO-220	60	2.4	2.0 ... 4.0	120
IPP029N06N	SP000917404	IPP029N06NAKSA1	TO-220	60	2.9	2.8	100
IPP032N06N3 G	SP000680770	IPP032N06N3GXKSA1	TO-220	60	3.2	2.0 ... 4.0	120
IPP037N06L3 G	SP000680774	IPP037N06L3GXKSA1	TO-220	60	3.7	1.2 ... 2.2	80
IPP040N06N	SP000959820	IPP040N06NAKSA1	TO-220	60	4.0	2.8	100
IPP040N06N3 G	SP000680788	IPP040N06N3GXKSA1	TO-220	60	4.0	2.0 ... 4.0	90
IPP052N06L3 G	SP000680802	IPP052N06L3GXKSA1	TO-220	60	4.9	1.2 ... 2.0	80
IPP057N06N3 G	SP000680808	IPP057N06N3GXKSA1	TO-220	60	5.7	2.0 ... 4.0	80
IPP060N06N	SP000917402	IPP060N06NAKSA1	TO-220	60	6.0	2.8	45
IPP084N06L3 G	SP000680838	IPP084N06L3GXKSA1	TO-220	60	8.1	1.2 ... 2.0	50
IPP093N06N3 G	SP000680852	IPP093N06N3GXKSA1	TO-220	60	9.0	2.0 ... 4.0	50
▼ IPT007N06N	SP001100158	IPT007N06NATMA1	TO-Leadless	60	0.75	2.1 ... 3.3	300
BSO615N G	SP000216316	BSO615NGHUMA1	SO-8 dual	60	150	1.2 ... 2.0	2.6
▼ BSP318S	SP001058838	BSP318SH6327XTSA1	SOT223	60	90	1.2 ... 2.0	2.5
▼ BSP320S	SP001058768	BSP320SH6327XTSA1	SOT223	60	120	2.0 ... 4.0	2.9
▼ BSP320S	SP001058772	BSP320SH6433XTMA1	SOT223	60	120	2.0 ... 4.0	2.9
▼ BSP295	SP001058618	BSP295H6327XTSA1	SOT223	60	300	0.8 ... 1.8	1.8
2N7002	SP000929182	2N7002H6327XTSA2	SOT23	60	3000	1.5 ... 2.5	0.20
BSS138N	SP000919330	BSS138NH6327XTSA2	SOT23	60	3500	0.6 ... 1.4	0.23
BSS138N	SP000924060	BSS138NH6433XTMA1	SOT23	60	3500	0.6 ... 1.4	0.23
BSS7728N	SP000929184	BSS7728NH6327XTSA2	SOT23	60	5000	1.3 ... 2.3	0.20
SN7002N	SP000929188	SN7002NH6327XTSA2	SOT23	60	5000	0.8 ... 1.8	0.20
SN7002N	SP000924072	SN7002NH6433XTMA1	SOT23	60	5000	0.8 ... 1.8	0.20
BSS138W	SP000924068	BSS138WH6327XTSA1	SOT323	60	3500	0.6 ... 1.4	0.28
BSS138W	SP000917558	BSS138WH6433XTMA1	SOT323	60	3500	0.6 ... 1.4	0.28
SN7002W	SP000917572	SN7002WH6327XTSA1	SOT323	60	5000	0.8 ... 1.8	0.23
SN7002W	SP000917588	SN7002WH6433XTMA1	SOT323	60	5000	0.8 ... 1.8	0.23
2N7002DW	SP000917596	2N7002DWH6327XTSA1	SOT363 dual	60	3000	1.5 ... 2.5	0.30

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**800V
CE Series**

◆▼	IPD80R1K0CE	SP001130974	IPD80R1K0CEATMA1	DDPAK	800	950	2.1 ... 3.9	5.7
◆▼	IPD80R1K0CE	SP001100606	IPD80R1K0CEBTMA1	DDPAK	800	950	2.1 ... 3.9	5.7
◆▼	IPD80R1K4CE	SP001130972	IPD80R1K4CEATMA1	DDPAK	800	1400	2.1 ... 3.9	3.9
◆▼	IPD80R1K4CE	SP001100604	IPD80R1K4CEBTMA1	DDPAK	800	1400	2.1 ... 3.9	3.9
◆▼	IPD80R2K8CE	SP001130970	IPD80R2K8CEATMA1	DDPAK	800	2800	2.1 ... 3.9	1.9
◆▼	IPD80R2K8CE	SP001100602	IPD80R2K8CEBTMA1	DDPAK	800	2800	2.1 ... 3.9	1.9
◆▼	IPU80R1K0CE	SP001100624	IPU80R1K0CEBKMA1	IPAK	800	950	2.1 ... 3.9	5.7
◆▼	IPU80R1K4CE	SP001100620	IPU80R1K4CEBKMA1	IPAK	800	1400	2.1 ... 3.9	3.9
◆▼	IPU80R2K8CE	SP001100622	IPU80R2K8CEBKMA1	IPAK	800	2800	2.1 ... 3.9	1.9

**900V
C3 Series**

◆	IPA90R340C3	SP000415916	IPA90R340C3XKSA1	TO-220 FullPAK	900	340	2.5 ... 3.5	15.0
◆	IPA90R500C3	SP000413716	IPA90R500C3XKSA1	TO-220 FullPAK	900	500	2.5 ... 3.5	10.0
◆	IPA90R800C3	SP000413718	IPA90R800C3XKSA1	TO-220 FullPAK	900	800	2.5 ... 3.5	6.9
◆	IPA90R1K0C3	SP000413712	IPA90R1K0C3XKSA1	TO-220 FullPAK	900	1000	2.5 ... 3.5	5.7
◆	IPA90R1K2C3	SP000413714	IPA90R1K2C3XKSA1	TO-220 FullPAK	900	1200	2.5 ... 3.5	5.1
◆	IPB90R340C3	SP000944226	IPB90R340C3ATMA1	D ² PAK	900	340	2.5 ... 3.5	15.0
◆▼	IPD90R1K2C3	SP001117752	IPD90R1K2C3ATMA1	DDPAK	900	1200	2.5 ... 3.5	5.1
◆	IPD90R1K2C3	SP000413720	IPD90R1K2C3BTMA1	DDPAK	900	1200	2.5 ... 3.5	5.1
◆	IPI90R340C3	SP000683082	IPI90R340C3XKSA1	I ² PAK	900	340	2.5 ... 3.5	15.0
◆	IPI90R500C3	SP000683084	IPI90R500C3XKSA1	I ² PAK	900	500	2.5 ... 3.5	10.0
◆	IPI90R800C3	SP000683086	IPI90R800C3XKSA1	I ² PAK	900	800	2.5 ... 3.5	6.7
◆	IPI90R1K0C3	SP000683078	IPI90R1K0C3XKSA1	I ² PAK	900	1000	2.5 ... 3.5	5.7
◆	IPI90R1K2C3	SP000683080	IPI90R1K2C3XKSA1	I ² PAK	900	1200	2.5 ... 3.5	5.1
◆	IPP90R340C3	SP000683098	IPP90R340C3XKSA1	TO-220	900	340	2.5 ... 3.5	15.0
◆	IPP90R500C3	SP000683100	IPP90R500C3XKSA1	TO-220	900	500	2.5 ... 3.5	10.0
◆	IPP90R800C3	SP000683102	IPP90R800C3XKSA1	TO-220	900	800	2.5 ... 3.5	6.7
◆	IPP90R1K0C3	SP000683094	IPP90R1K0C3XKSA1	TO-220	900	1000	2.5 ... 3.5	5.7
◆	IPP90R2K2C3	SP000683096	IPP90R1K2C3XKSA1	TO-220	900	1200	2.5 ... 3.5	5.1
◆	IPW90R120C3	SP000413750	IPW90R120C3FKSA1	TO-247	900	120	2.5 ... 3.5	36.0
◆	IPW90R340C3	SP000411306	IPW90R340C3FKSA1	TO-247	900	340	2.5 ... 3.5	15.0
◆	IPW90R500C3	SP000413756	IPW90R500C3FKSA1	TO-247	900	500	2.5 ... 3.5	10.0
◆	IPW90R800C3	SP000413758	IPW90R800C3FKSA1	TO-247	900	800	2.5 ... 3.5	6.7
◆	IPW90R1K0C3	SP000413752	IPW90R1K0C3FKSA1	TO-247	900	1000	2.5 ... 3.5	5.8
◆	IPW90R1K2C3	SP000413754	IPW90R1K2C3FKSA1	TO-247	900	1200	2.5 ... 3.5	5.1

SMD = Surface Mounted Device

Power Semiconductors

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

P-Channel MOSFETs

250V

BSP92P	SP001058796	BSP92PH6327XTSA1	SOT223	-250	12000	-2.0 ... -1.0	-0.26
BSP317P	SP001058758	BSP317PH6327XTSA1	SOT223	-250	4000	-2.0 ... -1.0	-0.43
BSR92P	SP000265408	BSR92PL6327HTSA1	SC59	-250	11000	-2.0 ... -1.0	-0.14
BSS192P	SP001047642	BSS192PH6327FTSA1	SOT89	-250	12000	-2.0 ... -0.8	-0.19

100V

BSP316P	SP001058754	BSP316PH6327XTSA1	SOT223	-100	1800	-2.0 ... -1.0	-0.68
BSP321P	SP001058782	BSP321PH6327XTSA1	SOT223	-100	900	-4.0 ... -2.1	-0.98
BSP322P	SP001058784	BSP322PH6327XTSA1	SOT223	-100	800	-2.0 ... -1.0	-1.0
BSR316P	SP000265407	BSR316PL6327HTSA1	SC59	-100	1800	-2.0 ... -1.0	-0.36
SPD15P10PL G	SP000317393	SPD15P10PLGBTMA1	DPAK	-100	200	-2.0 ... -1.0	-15
SPD15P10P G	SP000212233	SPD15P10PGBTMA1	DPAK	-100	240	-4.0 ... -2.1	-15
SPD04P10PL G	SP000212231	SPD04P10PLGBTMA1	DPAK	-100	850	-2.0 ... -1.0	-4.2
SPD04P10P G	SP000212230	SPD04P10PGBTMA1	DPAK	-100	1000	-4.0 ... -2.1	-4.0
SPP15P10PL H	SP000683162	SPP15P10PLHXKSA1	TO-220	-100	200	-2.0 ... -1.0	-15
SPP15P10P H	SP000683160	SPP15P10PHXKSA1	TO-220	-100	240	-4.0 ... -2.1	-15

60V

BSO613SPV G	SP000216309	BSO613SPVGHUMA1	SO-8	-60	130	-4.0 ... -2.1	-3.44
BSP170P	SP001058608	BSP170PH6327XTSA1	SOT223	-60	300	-4.0 ... -2.1	-1.9
BSP171P	SP001058824	BSP171PH6327XTSA1	SOT223	-60	300	-2.0 ... -1.0	-1.9
BSP315P	SP001058830	BSP315PH6327XTSA1	SOT223	-60	800	-2.0 ... -1.0	-1.17
BSP613P	SP001058788	BSP613PH6327XTSA1	SOT223	-60	130	-4.0 ... -2.1	-2.9
BSS83P	SP000702486	BSS83PH6327XTSA1	SOT23	-60	2000	-2.0 ... -1.0	-0.33
BSS84P	SP000929186	BSS84PH6327XTSA2	SOT23	-60	8000	-2.0 ... -1.0	-0.17
BSS84P	SP000924084	BSS84PH6433XTMA1	SOT23	-60	8000	-2.0 ... -1.0	-0.17
BSS84PW	SP000917564	BSS84PWH6327XTSA1	SOT323	-60	8000	-2.0 ... -1.0	-0.15
BSR315P	SP000265405	BSR315PL6327HTSA1	SC59	-60	800	-2.0 ... -1.0	-0.62
SPB80P06P G	SP000096088	SPB80P06PGATMA1	D ² PAK	-60	23	-4.0 ... -2.1	-80
SPB18P06P G	SP000102181	SPB18P06PGATMA1	D ² PAK	-60	130	-4.0 ... -2.1	-18.6
SPB08P06P G	SP000102179	SPB08P06PGATMA1	D ² PAK	-60	300	-4.0 ... -2.1	-8.8
SPD30P06P G	SP000441776	SPD30P06PGBTMA1	DPAK	-60	75	-4.0 ... -2.1	-30
SPD18P06P G	SP000443926	SPD18P06PGBTMA1	DPAK	-60	130	-4.0 ... -2.1	-18.6
SPD09P06PL G	SP000443928	SPD09P06PLGBTMA1	DPAK	-60	250	-2.0 ... -1.0	-9.7
SPD08P06P G	SP000450534	SPD08P06PGBTMA1	DPAK	-60	300	-4.0 ... -2.1	-8.8
SPP80P06P H	SP000441774	SPP80P06PHXKSA1	TO-220	-60	23	-4.0 ... -2.1	-80
SPP18P06P H	SP000446906	SPP18P06PHXKSA1	TO-220	-60	130	-4.0 ... -2.1	-18.6
SPP08P06P H	SP000446908	SPP08P06PHXKSA1	TO-220	-60	300	-4.0 ... -2.1	-8.8

30V

BSC030P03NS3 G	SP000442470	BSC030P03NS3GAUMA1	SuperSO8	-30	3	-3.1 ... -1.9	-100
BSC060P03NS3E G	SP000472984	BSC060P03NS3EGATMA1	SuperSO8	-30	6	-3.1 ... -1.9	-100
BSC080P03LS G	SP000359664	BSC080P03LSGAUMA1	SuperSO8	-30	8	-2.2 ... -1.0	-30
BSC084P03NS3 G	SP000473020	BSC084P03NS3GATMA1	SuperSO8	-30	8.4	-3.1 ... -1.9	-78.6
BSC084P03NS3E G	SP000473012	BSC084P03NS3EGATMA1	SuperSO8	-30	8.4	-3.0 ... -2.0	-78.6
BSC130P03LS G	SP000359666	BSC130P03LSGAUMA1	SuperSO8	-30	13	-2.2 ... -1.0	-22.5

SMD = Surface Mounted Device

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

Depletion MOSFETs**60V**

BSS159N	SP000919328	BSS159NH6327XTSA2	SOT23	60	3500	-3.5 ... -2.4	0.23
BSS159N	SP000702636	BSS159NH6906XTSA1	SOT23	60	3500	-3.5 ... -2.4	0.23
BSS159N	SP000247298	BSS159NL6906HTSA1	SOT23	60	3500	-3.5 ... -2.4	0.23

100V

BSS169	SP000702572	BSS169H6327XTSA1	SOT23	100	6000	-2.9 ... -1.8	0.17
BSS169	SP000702582	BSS169H6906XTSA1	SOT23	100	6000	-2.9 ... -1.8	0.17
BSS169	SP000247300	BSS169L6906HTSA1	SOT23	100	6000	-2.9 ... -1.8	0.17

200V

BSP149	SP001058818	BSP149H6327XTSA1	SOT223	200	1800	-2.1 ... -1.0	0.66
BSP149	SP001058604	BSP149H6906XTSA1	SOT223	200	1800	-2.1 ... -1.0	0.66

240V

BSP129	SP001058580	BSP129H6327XTSA1	SOT223	240	6000	-2.1 ... -1.0	0.35
BSP129	SP001058586	BSP129H6906XTSA1	SOT223	240	6000	-2.1 ... -1.0	0.35

250V

BSS139	SP000702610	BSS139H6327XTSA1	SOT23	250	14000	-2.1 ... -1.0	0.1
BSS139	SP000702612	BSS139H6906XTSA1	SOT23	250	14000	-2.1 ... -1.0	0.1

600V

BSS126	SP000919334	BSS126H6327XTSA2	SOT23	600	700	-2.7 ... -1.6	0.06
BSS126	SP000705716	BSS126H6906XTSA1	SOT23	600	700	-2.7 ... -1.6	0.06
BSP135	SP001058812	BSP135H6327XTSA1	SOT223	600	60000	-2.1 ... -1.0	0.12
▼ BSP135	SP001058592	BSP135H6433XTMA1	SOT223	600	60000	-2.1 ... -1.0	0.12
BSP135	SP001058594	BSP135H6906XTSA1	SOT223	600	60000	-2.1 ... -1.0	0.12

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_{CE}	I_C	I_C (pulse) (max)	V_{CE} (sat) (typ)
				V	A	A	V

IGBT Power Transistors

High Speed-5, fifth generation (highest efficiency) 650V

IGP40N65F5	SP000973422	IGP40N65F5XKSA1	TO-220	650	40	120	1.60
IGW40N65F5	SP000973424	IGW40N65F5FKSA1	TO-247	650	40	120	1.60
IGW50N65F5	SP000973426	IGW50N65F5FKSA1	TO-247	650	50	150	1.60

High Speed-5, fifth generation (high speed variant) 650V

IGP40N65H5	SP001001738	IGP40N65H5XKSA1	TO-220	650	40	120	1.60
IGW40N65H5	SP001001742	IGW40N65H5FKSA1	TO-247	650	40	120	1.60
IGW50N65H5	SP001001744	IGW50N65H5FKSA1	TO-247	650	50	150	1.60

High Speed-5, fifth generation (highest efficiency) (IGBT + Emitter Controlled Diode) 650V

IKA08N65F5	SP000973414	IKA08N65F5XKSA1	TO-220 FullPAK	650	8	24	1.60
IKA15N65F5	SP000973416	IKA15N65F5XKSA1	TO-220 FullPAK	650	15	45	1.60
IKP08N65F5	SP000973408	IKP08N65F5XKSA1	TO-220	650	8	24	1.60
IKP15N65F5	SP000973410	IKP15N65F5XKSA1	TO-220	650	15	45	1.60
IKP40N65F5	SP000973412	IKP40N65F5XKSA1	TO-220	650	40	120	1.60
IKW40N65F5	SP000973418	IKW40N65F5FKSA1	TO-247	650	40	120	1.60
IKW50N65F5	SP000973420	IKW50N65F5FKSA1	TO-247	650	50	150	1.60

High Speed-5, fifth generation (high speed variant) (IGBT + Emitter Controlled Diode) 650V

IKA08N65H5	SP001001722	IKA08N65H5XKSA1	TO-220 FullPAK	650	8	24	1.60
IKA15N65H5	SP001001724	IKA15N65H5XKSA1	TO-220 FullPAK	650	15	45	1.60
IKP08N65H5	SP001001716	IKP08N65H5XKSA1	TO-220	650	8	24	1.60
IKP15N65H5	SP001001718	IKP15N65H5XKSA1	TO-220	650	15	45	1.60
IKP40N65H5	SP001001720	IKP40N65H5XKSA1	TO-220	650	40	120	1.60
IKW40N65H5	SP001001730	IKW40N65H5FKSA1	TO-247	650	40	120	1.60
IKW50N65H5	SP001001734	IKW50N65H5FKSA1	TO-247	650	50	150	1.60

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_{CE}	I_C	I_C (pulse) (max)	V_{CE} (sat) (typ)
				V	A	A	V

IGBT Power Transistors**TRENCHSTOP™ Single Version
600V**

IGB10N60T	SP000456678	IGB10N60TATMA1	D ² PAK	600	10	30	1.50
IGB15N60T	SP000054921	IGB15N60TATMA1	D ² PAK	600	15	45	1.50
IGB30N60T	SP000095765	IGB30N60TATMA1	D ² PAK	600	30	90	1.50
IGB50N60T	SP000054922	IGB50N60TATMA1	D ² PAK	600	50	150	1.50
IGD06N60T	SP000960698	IGD06N60TATMA1	DPAK	600	6	18	1.50
IGP06N60T	SP000683040	IGP06N60TXKSA1	TO-220	600	6	18	1.50
IGP10N60T	SP000683042	IGP10N60TXKSA1	TO-220	600	10	30	1.50
IGP15N60T	SP000683044	IGP15N60TXKSA1	TO-220	600	15	45	1.50
IGP50N60T	SP000683046	IGP50N60TXKSA1	TO-220	600	50	150	1.50
▼ IGU04N60T	SP001045846	IGU04N60TAKMA1	IPAK	600	4	12	1.50
IGW30N60T	SP000054925	IGW30N60TFKSA1	TO-247	600	30	90	1.50
IGW50N60T	SP000054926	IGW50N60TFKSA1	TO-247	600	50	150	1.50
IGW75N60T	SP000054927	IGW75N60TFKSA1	TO-247	600	75	225	1.50

**TRENCHSTOP™
1200V**

IGW08T120	SP000013937	IGW08T120FKSA1	TO-247	1200	8	24	1.70
IGW15T120	SP000013888	IGW15T120FKSA1	TO-247	1200	15	45	1.70
IGW25T120	SP000013887	IGW25T120FKSA1	TO-247	1200	25	75	1.70
IGW40T120	SP000013886	IGW40T120FKSA1	TO-247	1200	40	105	1.70
IGW60T120	SP000013906	IGW60T120FKSA1	TO-247	1200	60	105	1.70

**TRENCHSTOP™ DuoPack (IGBT + Emitter Controlled Diode)
600V**

IKA06N60T	SP000215375	IKA06N60TXKSA1	TO-220 FullPAK	600	6	18	1.50
IKA10N60T	SP000215376	IKA10N60TXKSA1	TO-220 FullPAK	600	10	30	1.50
IKA15N60T	SP000215377	IKA15N60TXKSA1	TO-220 FullPAK	600	15	45	1.50
IKB06N60T	SP000014954	IKB06N60TATMA1	D ² PAK	600	6	18	1.50
IKB10N60T	SP000014833	IKB10N60TATMA1	D ² PAK	600	10	30	1.50
IKB15N60T	SP000054882	IKB15N60TATMA1	D ² PAK	600	15	45	1.50
IKB20N60T	SP000054883	IKB20N60TATMA1	D ² PAK	600	20	60	1.50
IKI04N60T	SP000607046	IKI04N60TXKSA1	I ² PAK	600	4	12	1.50
IKP04N60T	SP000683054	IKP04N60TXKSA1	TO-220	600	4	12	1.50
IKP06N60T	SP000683056	IKP06N60TXKSA1	TO-220	600	6	18	1.50
IKP10N60T	SP000683062	IKP10N60TXKSA1	TO-220	600	10	30	1.50
IKP15N60T	SP000683064	IKP15N60TXKSA1	TO-220	600	15	45	1.50
IKP20N60T	SP000683066	IKP20N60TXKSA1	TO-220	600	20	60	1.50
IHW30N60T	SP000076306	IHW30N60TFKSA1	TO-247	600	30	90	1.50
IHW40T60	SP000309994	IHW40T60FKSA1	TO-247	600	40	120	1.55
IKW20N60T	SP000054886	IKW20N60TFKSA1	TO-247	600	20	60	1.50
IKW30N60T	SP000054887	IKW30N60TFKSA1	TO-247	600	30	90	1.50
IKW50N60T	SP000054888	IKW50N60TFKSA1	TO-247	600	50	150	1.50
IKW75N60T	SP000054889	IKW75N60TFKSA1	TO-247	600	75	225	1.50

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
Power Management ICs				
IGBT Gate Driver ICs				
EiceDRIVER™ Compact				
▼ 2EDL05I06BF	SP001070344	2EDL05I06BFXUMA1	PG-DSO-8	Half bridge IGBT driver IC (600V), gate drive currents of +0.25A/-0.5A (EiceDRIVER™), no deadtime, no interlock, tape & reel
▼ 2EDL05I06PF	SP001048832	2EDL05I06PFXUMA1	PG-DSO-8	Half bridge IGBT driver IC (600V), gate drive currents of +0.25A/-0.5A (EiceDRIVER™), deadtime, interlock, tape & reel
▼ 2EDL05I06PJ	SP001114156	2EDL05I06PJXUMA1	PG-DSO-14	Half bridge IGBT driver IC (600V), gate drive currents of +0.25A/-0.5A (EiceDRIVER™), deadtime, interlock, tape & reel
▼ 2EDL05N06PF	SP001048830	2EDL05N06PFXUMA1	PG-DSO-8	Half bridge MOSFET driver IC (600V), gate drive currents of +0.25A/-0.5A (EiceDRIVER™), deadtime, interlock, tape & reel
▼ 2EDL05N06PJ	SP001114078	2EDL05N06PJXUMA1	PG-DSO-14	Half bridge MOSFET driver IC (600V), gate drive currents of +0.25A/-0.5A (EiceDRIVER™), deadtime, interlock, tape & reel
▼ 2EDL23I06PJ	SP001080086	2EDL23I06PJXUMA1	PG-DSO-14	Half bridge IGBT driver IC (600V), gate drive currents of +1.8A/-2.3A (EiceDRIVER™), deadtime, interlock, Enable, fault, OCP, tape & reel
▼ 2EDL23N06PJ	SP001080088	2EDL23N06PJXUMA1	PG-DSO-14	Half bridge MOSFET driver IC (600V), gate drive currents of +1.8A/-2.3A (EiceDRIVER™), deadtime, interlock, Enable, fault, OCP, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
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Power Management ICs**1.5 - 3.3V Ultra Low Quiescent Current Linear Voltage Regulators for Industrial and Consumer Applications**

▼ IFX1763XEJ V33	SP000938790	IFX1763XEJV33XUMA1	PG-DSO-8 EP	3.3V, $I_{out} = 500\text{mA}$, short circuit protected, Enable, overtemperature protected, tape & reel
▼ IFX54441EJ V33	SP000953844	IFX54441EJV33XUMA1	PG-DSO-8 EP	3.3V, $I_{out} = 300\text{mA}$, short circuit protected, Enable, overtemperature protected, tape & reel

5V Ultra Low Quiescent Current Linear Voltage Regulators for Industrial and Consumer Applications

▼ IFX1763XEJ V50	SP000938802	IFX1763XEJV50XUMA1	PG-DSO-8 EP	5V, $I_{out} = 500\text{mA}$, short circuit protected, Enable, overtemperature protected, tape & reel
IFX25401TB V50	SP000623298	IFX25401TBV50ATMA1	PG-TO263-5	5V, $I_{out} = 400\text{mA}$, short circuit protected, overtemperature protected, tape & reel
IFX25401TE V50	SP000623308	IFX25401TEV50ATMA1	PG-TO252-3	5V, $I_{out} = 100\text{mA}$, short circuit protected, overtemperature protected, 2% accuracy, tape & reel
IFX4949SJ	SP000663314	IFX4949SJXUMA1	PG-DSO-8	5V, $I_{out} = 100\text{mA}$, short circuit protected, overtemperature protected, 2% accuracy, tape & reel
▼ IFX54441EJ V50	SP000953834	IFX54441EJV50XUMA1	PG-DSO-8 EP	5V, $I_{out} = 300\text{mA}$, short circuit protected, Enable, overtemperature protected, tape & reel

Adjustable Ultra Low Quiescent Current Linear Voltage Regulators for Industrial and Consumer Applications

▼ IFX1763XEJV	SP000938788	IFX1763XEJVXUMA1	PG-DSO-8 EP	adj. voltage, $I_{out} = 500\text{mA}$, short circuit protected, Enable, overtemperature protected, tape & reel
IFX25401TBV	SP000611478	IFX25401TBVATMA1	PG-TO263-5	adj. voltage, $I_{out} = 400\text{mA}$, short circuit protected, overtemperature protected, tape & reel
IFX25401TEV	SP000614698	IFX25401TEVATMA1	PG-TO252-3	adj. voltage, $I_{out} = 1\text{A}$, short circuit protected, overtemperature protected, tape & reel
IFX27001TFV	SP000624090	IFX27001TFVATMA1	PG-TO252-3	adj. voltage, $I_{out} = 1\text{A}$, short circuit protected, overtemperature protected, tape & reel
▼ IFX54441EJV	SP000953854	IFX54441EJVXUMA1	PG-DSO-8 EP	adj. voltage, $I_{out} = 300\text{mA}$, short circuit protected, Enable, overtemperature protected, tape & reel

Industrial Constant Current Relay Driver

IFX52001EJ	SP000911866	IFX52001EJXUMA1	PG-DSO-8 EP	Coil/relay driver, reduces relay hold current to min. 40mA, overtemperature protected, tape & reel
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Voltage Tracker for Industrial and Consumer Applications

IFX21401MB	SP000614692	IFX21401MBHTSA1	PG-SCT595-5	adj. voltage, $I_{out} = 50\text{mA}$, overtemperature protected, tape & reel
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SMD = Surface Mounted Device

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
▼ TLE8261E	SP001056112	TLE8261EXUMA2	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
▼ TLE8261-2E	SP001056114	TLE82612EXUMA2	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
▼ TLE8262E	SP001056118	TLE8262EXUMA2	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
▼ TLE8262-2E	SP001056116	TLE82622EXUMA2	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
▼ TLE8263E	SP001056124	TLE8263EXUMA2	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 2LIN, LDO and SPI, 1 limp home output, tape & reel

SMD = Surface Mounted Device

RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ($T_A = 25^\circ\text{C}$)			
				V_D	I_D	NF	G	f	
				V	mA	dB	dB	MHz	

RF MMICs

UMTS/3G/4G LNA

▼ BGA711N7	7.5k*	SP001061040	BGA711N7E6327XTSA1	TSNP-7-1	3.6	10	1.1	17	2100
▼ BGA713N7	7.5k*	SP001061042	BGA713N7E6327XTSA1	TSNP-7-1	3.6	10	1.1	15.5	700
BGA734L16	7.5k*	SP000293791	BGA734L16E6327XTSA1	TSLP-16-1	3.6	5	1.2	15	1900
BGA735N16	7.5k*	SP000659248	BGA735N16E6327XTSA1	TSNP-16-1	3.6	10	1.1	16	1900
BGA736L16	7.5k*	SP000366348	BGA736L16E6327XTSA1	TSLP-16-1	3.6	10	1.0	16.1	1900
BGA748L16	7.5k*	SP000608112	BGA748L16E6327XTSA1	TSLP-16-1	3.6	10	1.1	16.5	1960
BGA749N16	7.5k*	SP000765164	BGA749N16E6327XTSA1	TSNP-16-1	3.6	10	1.2	16.1	940
▼ BGA751N7	7.5k*	SP001061044	BGA751N7E6327XTSA1	TSNP-7-1	3.6	10	1.05	16	800
BGA771L16	7.5k*	SP000417116	BGA771L16E6327XTSA1	TSLP-16-1	3.6	10	1.1	16	900
▼ BGA777N7	7.5k*	SP001061046	BGA777N7E6327XTSA1	TSNP-7-1	3.6	10	1.2	16	2650

LTE LNA Banks

▼ BGM7LLHM4L12	7.5k*	SP001160598	BGM7LLHM4L12E6327XTSA1	TSLP-12-4	3.6	10	0.7	13	BB
▼ BGM7MLLH4L12	7.5k*	SP001160604	BGM7MLLH4L12E6327XTSA1	TSLP-12-4	3.6	10	0.7	13	BB
▼ BGM7MLLM4L12	7.5k*	SP001160606	BGM7MLLM4L12E6327XTSA1	TSLP-12-4	3.6	10	0.7	13	BB
▼ BGM7LMHM4L12	7.5k*	SP001160602	BGM7LMHM4L12E6327XTSA1	TSLP-12-4	3.6	10	0.7	13	BB
▼ BGM7HHMH4L12	7.5k*	SP001160600	BGM7HHMH4L12E6327XTSA1	TSLP-12-4	3.6	10	0.7	13	BB

Broadband/Wideband/FM+DVB Broadcast LNA

BGB707L7ESD	7.5k*	SP000531308	BGB707L7ESDE6327XTSA1	TSLP-7-1	4.0	25	1.0	15	10
BGB717L7ESD	7.5k*	SP000555608	BGB717L7ESDE6327XTSA1	TSLP-7-1	4.0	25	1.0	12	100
BGB717L7ESD	20k*	SP000638992	BGB717L7ESDE6433XTMA1	TSLP-7-1	4.0	25	1.0	12	100
BGB719N7ESD	7.5k*	SP000942784	BGB719N7ESDE6327XTMA1	TSNP-7-6	4.0	25	1.2	13	100
BGB741L7ESD	7.5k*	SP000442946	BGB741L7ESDE6327XTSA1	TSLP-7-1	4.0	30	1.3	17.5	2400

Type	Ordering Code	Orderable Part Number	Package	Typical Ratings		Characteristics ($T_A = 25^\circ\text{C}$)			
				V_S	I_{CC}	NF	G	f	
				V	mA	dB	dB	GHz	

mmW-MMICs

Silicon Germanium 24-GHz Twin IQ Receiver MMIC

▼ BGT24MR2	1k*	SP001140088	BGT24MR2E6327XUMA1	VQFN-32-9	3.3	90	12	26	24 - 24.25
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Silicon Germanium 24-GHz Transceiver MMIC

▼ BGT24MTR11	1k*	SP001140086	BGT24MTR11E6327XUMA1	VQFN-32-9	3.3	150	12	26	24 - 26
▼ BGT24MTR12	1k*	SP001140084	BGT24MTR12E6327XUMA1	VQFN-32-9	3.3	210	12	26	24 - 24.25

* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ($T_A = 25^\circ\text{C}$)			
				V_R V	I_F mA	C_T pF	V_R V	C_{T1}/C_{T2}	

RF Varactor Diodes**FM Tuner**

BB804SF1 (Dual)	3k*	SP000010425	BB804SF1E6327HTSA1	SOT23	20	50	43.0... 44.5	2	1.70
BB804SF2 (Dual)	3k*	SP000010426	BB804SF2E6327HTSA1	SOT23	20	50	44.0 ... 45.5	2	1.70
BB814GR1 (Dual)	3k*	SP000010433	BB814E6327GR1HTSA1	SOT23	20	50	43.0 ... 44.5	2	2.05 ... 2.25
■ BB814GR2 (Dual)	3k*	SP000010435	BB814E6327GR2HTSA1	SOT23	20	50	45.0 ... 46.5	2	2.05 ... 2.25
BB844 (Dual)	3k*	SP000013388	BB844E6327HTSA1	SOT23	18	50	42.5 ... 45	2	3.20 ... 3.80
BB914 (Dual)	3k*	SP000010445	BB914E6327HTSA1	SOT23	20	50	42.5 ... 45	2	2.28 ... 2.42

SAT Tuner

BB831	3k*	SP000012250	BB831E7904HTSA1	SOD323	30	20	7.8... 9.8	1	8.60
BB833	3k*	SP000010437	BB833E6327HTSA1	SOD323	30	20	8.5...10	1	12.40
BB837	3k*	SP000010441	BB837E6327HTSA1	SOD323	30	20	6.0... 7.2	1	12.20
BB857 matched	3k*	SP000745128	BB857H7902XTSA1	SCD80	30	20	6.0... 7.2	1	12.00

UHF and VHF Tuner

BB439 matched	3k*	SP000010372	BB439E6327HTSA1	SOD323	30	20	26...32	3	5 ... 6.5
BB535 matched	3k*	SP000010375	BB535E7904HTSA1	SOD323	30	20	17.5... 20	1	8.2 ... 9.8
BB535 unmatched	3k*	SP000010374	BB535E7907HTMA1	SOD323	30	20	17.5 ... 20	1	8.2 ... 9.8
▼ BB535 matched	3k*	SP000010377	BB535E7908HTSA1	SOD323	30	20	17.5 ... 20	1	8.2 ... 9.8
BB545 matched	3k*	SP000010383	BB545E7904HTSA1	SOD323	30	20	18.5 ... 21.5	1	9 ... 11
BB555 matched	3k*	SP000733802	BB555H7902XTSA1	SCD80	30	20	17.5 ... 20	1	6.7
BB555 matched	8k*	SP000745068	BB555H7912XTSA1	SCD80	30	20	17.5 ... 20	1	6.7
BB555-02V matched	3k*	SP000745088	BB55502VH7902XTSA1	SC79	30	20	17.5 ... 20	1	8.2 ... 9.8
BB555-02V matched	8k*	SP000745092	BB55502VH7912XTSA1	SC79	30	20	17.5 ... 20	1	8.2 ... 9.8
BB565 matched	3k*	SP000745094	BB565H7902XTSA1	SCD80	30	20	18.5 ... 21.5	1	7.2
BB565 unmatched	3k*	SP000745096	BB565H7908XTSA1	SCD80	30	20	18.5 ... 21.5	1	7.2
BB565 matched	8k*	SP000842826	BB565H7912XTSA1	SCD80	30	20	18.5 ... 21.5	1	7.2
BB565-02V matched	3k*	SP000745098	BB56502VH7902XTSA1	SC79	30	20	18.5 ... 21.5	1	9 ... 11

* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings				Resistance Value	
				V_{CEO}	$V_{I(on) max}$	I_C	P_{tot}	R_1	R_2
				V	V	mA	mW	k Ω	k Ω

Digital Transistors

Single $I_C \leq 500mA$

BCR503	3k*	SP000010839	BCR503E6327HTSA1	SOT23	50	12	500	330	2.2	2.2
BCR505	3k*	SP000010841	BCR505E6327HTSA1	SOT23	50	12	500	330	2.2	10
BCR512	3k*	SP000010844	BCR512E6327HTSA1	SOT23	50	30	500	330	4.7	4.7
BCR521	3k*	SP000010845	BCR521E6327HTSA1	SOT23	50	10	500	330	1.0	1.0
BCR523	3k*	SP000010851	BCR523E6327HTSA1	SOT23	50	12	500	330	1.0	10
BCR523	10k*	SP000010852	BCR523E6433HTMA1	SOT23	50	12	500	330	1.0	10
BCR533	3k*	SP000010853	BCR533E6327HTSA1	SOT23	50	40	500	330	10	10
BCR553	3k*	SP000010854	BCR553E6327HTSA1	SOT23	50	12	500	330	2.2	2.2
BCR555	3k*	SP000010855	BCR555E6327HTSA1	SOT23	50	10	500	330	2.2	10
BCR555	10k*	SP000010857	BCR555E6433HTMA1	SOT23	50	10	500	330	2.2	10
BCR562	3k*	SP000010859	BCR562E6327HTSA1	SOT23	50	30	500	330	4.7	4.7
BCR573	3k*	SP000010861	BCR573E6327HTSA1	SOT23	50	12	500	330	1	10
BCR573	10k*	SP000010860	BCR573E6433HTMA1	SOT23	50	12	500	330	1	10
BCR583	3k*	SP000012278	BCR583E6327HTSA1	SOT23	50	20	500	330	10	10

Dual $I_C \leq 500mA$

BCR523U	3k*	SP000013381	BCR523UE6327HTSA1	SC74	50	12	500	330	1.0	10
BCR523U	10k*	SP000662374	BCR523UE6433HTMA1	SC74	50	12	500	330	1.0	10

* 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 $I_{\text{C}} \leq 100\text{mA}$

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

Type	Ordering Code	Orderable Part Number	Package	Description
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Contactless Products**Contactless Memories my-d™ move and my-d™ move NFC**

◆ SLE 66R01LN NB	SP000953268	SLE66R01LNNBX1SA1	wafer sawn	Intelligent 576-bit EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum type 2 tag operation initialized state, non reversible
◆ SLE 66R01PN NB	SP000953914	SLE66R01PNNBX1SA2	wafer sawn	Intelligent 1.216-bit EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum type 2 tag operation initialized state, non-reversible

Contactless Memories MIFARE™ compatible

◆▼ SLE 66R35 MCC8I	SP000921134	SLE66R35MCC8IXHSA1	P-MCC8-2-6	Intelligent 1-Kbyte EEPROM with contactless interface complying to ISO/IEC 14443 type A and MIFARE™ compatibility featuring a 4-byte non UID, mutual three pass authentication with 48-bit keys
◆▼ SLE 66R35E7 MCC2	SP000883304	SLE66R35E7MCC2ZZZA1	P-MCC2-2-1	Intelligent 1-Kbyte EEPROM with contactless interface complying to ISO/IEC 14443 type A and MIFARE™ compatibility featuring a 7-byte unique ID
◆▼ SLE 66R35I MCC8	SP000893184	SLE66R35IMCC8XHSA1	P-MCC8-2-6	Intelligent 1-Kbyte EEPROM with contactless interface complying to ISO/IEC 14443 type A and MIFARE™ compatibility featuring a 4-byte non unique ID
◆ SLE 66R35R MCC2	SP000907630	SLE66R35RMCC2XHSA1	P-MCC2-2-1	Intelligent 1-Kbyte EEPROM with contactless interface complying to ISO/IEC 14443 type A and MIFARE™ compatibility featuring a 4-byte reused ID
◆ SLE 66R35R MCC8	SP000907710	SLE66R35RMCC8XHSA1	P-MCC8-2-3	Intelligent 1-Kbyte EEPROM with contactless interface complying to ISO/IEC 14443 type A and MIFARE™ compatibility featuring a 4-byte reused ID
◆ SLE 66R35R MCC8	SP000907732	SLE66R35RMCC8IXHSA1	P-MCC8-2-6	Intelligent 1-Kbyte EEPROM with contactless interface complying to ISO/IEC 14443 type A and MIFARE™ compatibility featuring a 4-byte reused ID

SMD = Surface Mounted Device

Chip Card & Security ICs

Type	Ordering Code	Orderable Part Number	Package	Description
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Contactless Products

Contactless Memories my-d™ NFC

◆▼ SLE 66R16P MCC2	SP000410330	SLE66R16PMCC2ZZZA1	P-MCC2-2-1	Intelligent 2048-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum type 2 tag operation, (up to 1024 bytes NFC memory)
◆ SLE 66R16P MCC8I	SP000953280	SLE66R16PMCC8IXHSA1	P-MCC8-2-6	
◆ SLE 66R32P NB	SP000410340	SLE66R32PMCC2ZZZA1	wafer	Intelligent 4096-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum type 2 tag operation, (up to 2048 bytes NFC memory)
◆▼ SLE 66R32P MCC8I	SP000953284	SLE66R32PMCC8IXHSA1	P-MCC8-2-6	

Contactless Memories my-d™ proximity 2

◆ SLE 66R04S NB	SP000410344	SLE66R04SNBZZZA1	wafer	Intelligent 512-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A
◆ SLE 66R16S MCC2	SP000410360	SLE66R16SMCC2XHSA1	P-MCC2-2-1	Intelligent 2048-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A
◆ SLE 66R16S MCC8	SP000671906	SLE66R16SMCC8XHSA1	P-MCC2-8-1	
◆ SLE 66R32S NB	SP000410364	SLE66R32SNBZZZA1	wafer	Intelligent 4096-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A
◆ SLE 66R32S MCC2	SP000410368	SLE66R32SMCC2ZZZA1	P-MCC2-2-1	Intelligent 4096-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A
◆ SLE 66R32S MCC8	SP000714848	SLE66R32SMCC8ZZZA1	P-MCC2-8-1	

Components for Contactless Terminals

◆ SLF 9620 M5.1	SP000949930	SLF9620M51XHSA1	T-M5.1-8-1	Security access module with ISO/IEC 7816 interface supporting MIFARE™ compatible my-d™ algorithm, 3DES and AES128
◆ SLF 9620 VQFN8A	SP000949926	SLF9620VQFN8AXUMA1	PG-VQFN-8	

SMD = Surface Mounted Device

Summary of Types

Type		Ordering Code	Orderable Part Number	Page	Type		Ordering Code	Orderable Part Number	Page
BBY53-02W	3k	SP000743552	BBY5302WH6327XTSA1	181	BC856S	3k	SP000747446	BC856SH6327XTSA1	195
BBY53-03W	3k	SP000010461	BBY5303WE6327HTSA1	181	BC856U	3k	SP000012620	BC856UE6327HTSA1	195
BBY53-05W (Dual)	3k	SP000743554	BBY5305WH6327XTSA1	181	BC857A	3k	SP000010639	BC857AE6327HTSA1	194
BBY55-02V	3k	SP000743556	BBY5502VH6327XTSA1	181	BC857B	10k	SP000010648	BC857BE6433HTMA1	194
BBY55-02W	3k	SP000743558	BBY5502WH6327XTSA1	181	BC857B	3k	SP000010633	BC857BE6327HTSA1	194
BBY55-03W	3k	SP000012238	BBY5503WE6327HTSA1	181	BC857BL3	3k	SP000013556	BC857BL3E6327XTMA1	194
BBY56-02W	3k	SP000734340	BBY5602WH6327XTSA1	181	BC857BW	3k	SP000747448	BC857BWH6327XTSA1	194
BBY56-03W	3k	SP000012239	BBY5603WE6327HTSA1	181	BC857BW	3k	SP000747450	BC857BWH6778XTSA1	194
BBY57-02V	3k	SP000743560	BBY5702VH6327XTSA1	181	BC857C	10k	SP000010660	BC857CE6433HTMA1	194
BBY57-02W	3k	SP000743562	BBY5702WH6327XTSA1	181	BC857C	3k	SP000010640	BC857CE6327HTSA1	194
BBY57-05W (Dual)	3k	SP000743564	BBY5705WH6327XTSA1	181	BC857CW	10k	SP000747454	BC857CWH6433XTMA1	194
BBY58-02V	3k	SP000743566	BBY5802VH6327XTSA1	181	BC857CW	3k	SP000747452	BC857CWH6327XTSA1	194
BBY58-02W	3k	SP000743570	BBY5802WH6327XTSA1	181	BC857S	10k	SP000747576	BC857SH6433XTMA1	195
BBY58-03W	3k	SP000012240	BBY5803WE6327HTSA1	181	BC857S	3k	SP000747456	BC857SH6327XTSA1	195
BBY58-05W (Dual)	3k	SP000743572	BBY5805WH6327XTSA1	181	BC857S	3k	SP000747580	BC857SH6827XTSA1	195
BBY58-06W (Dual)	3k	SP000743574	BBY5806WH6327XTSA1	181	BC858A	3k	SP000010636	BC858AE6327HTSA1	194
BBY65-02V	3k	SP000743576	BBY6502VH6327XTSA1	181	BC858B	10k	SP000010652	BC858BE6433HTMA1	194
BBY66-02V	3k	SP000743580	BBY6602VH6327XTSA1	181	BC858B	3k	SP000010634	BC858BE6327HTSA1	194
BBY66-05W	3k	SP000743582	BBY6605WH6327XTSA1	181	BC858BW	3k	SP000747582	BC858BWH6327XTSA1	194
BC807U	3k	SP000012395	BC807UE6327HTSA1	196	BC858C	10k	SP000010654	BC858CE6433HTMA1	194
BC817K-16	10k	SP000271829	BC817K16E6433HTMA1	196	BC858C	3k	SP000010624	BC858CE6327HTSA1	194
BC817K-16	3k	SP000271788	BC817K16E6327HTSA1	196	BC858CW	3k	SP000747584	BC858CWH6327XTSA1	194
BC817K-16W	3k	SP000786164	BC817K16WH6327XTSA1	196	BC859C	3k	SP000010637	BC859CE6327HTSA1	194
BC817K-25	10k	SP000271879	BC817K25E6433HTMA1	196	BC860B	3k	SP000010642	BC860BE6327HTSA1	198
BC817K-25	3k	SP000271875	BC817K25E6327HTSA1	196	BC860BW	3k	SP000747586	BC860BWH6327XTSA1	198
BC817K-25W	10k	SP000786166	BC817K25WH6433XTMA1	196	BC860CW	3k	SP000747588	BC860CWH6327XTSA1	198
BC817K-25W	3k	SP000746848	BC817K25WH6327XTSA1	196	BCM846S	3k	SP000747590	BCM846SH6327XTSA1	198
BC817K-40	10k	SP000271898	BC817K40E6433HTMA1	196	BCM856S	10k	SP000747594	BCM856SH6433XTMA1	198
BC817K-40	3k	SP000271895	BC817K40E6327HTSA1	196	BCM856S	3k	SP000747592	BCM856SH6327XTSA1	198
BC817K-40W	3k	SP000746850	BC817K40WH6327XTSA1	196	BCM856S	3k	SP000747596	BCM856SH6778XTSA1	198
BC817SU	3k	SP000296413	BC817SUE6327HTSA1	196	BCP29	1k	SP000010883	BCV29E6327HTSA1	199
BC817U	3k	SP000012394	BC817UE6327HTSA1	196	BCP49	1k	SP000010685	BCP49E6327HTSA1	199
BC817UPN	3k	SP000012398	BC817UPNE6327HTSA1	196	BCP51-16	1k	SP000010694	BCP5116E6327HTSA1	197
BC818K-16W	3k	SP000746852	BC818K16WH6327XTSA1	196	BCP51-16	4k	SP000010703	BCP5116E6433HTMA1	197
BC818K-40	3k	SP000271908	BC818K40E6327HTSA1	196	BCP51	1k	SP000010692	BCP51E6327HTSA1	197
BC846PN	3k	SP000746856	BC846PNH6327XTSA1	195	BCP52-16	1k	SP000010696	BCP5216E6327HTSA1	197
BC846S	10k	SP000746926	BC846SH6433XTMA1	195	BCP53-10	1k	SP000010697	BCP5310E6327HTSA1	197
BC846S	3k	SP000746922	BC846SH6327XTSA1	195	BCP53-16	1k	SP000010698	BCP5316E6327HTSA1	197
BC846S	3k	SP000746928	BC846SH6727XTSA1	195	BCP53-16	4k	SP000010702	BCP5316E6433HTMA1	197
BC846U	3k	SP000012619	BC846UE6327HTSA1	195	BCP54-16	1k	SP000010709	BCP5416E6327HTSA1	197
BC846UPN	3k	SP000012621	BC846UPNE6327HTSA1	195	BCP54-16	4k	SP000010717	BCP5416E6433HTMA1	197
BC847A	3k	SP000010571	BC847AE6327HTSA1	194	BCP54	1k	SP000010707	BCP54E6327HTSA1	197
BC847B	10k	SP000010576	BC847BE6433HTMA1	194	BCP55-16	1k	SP000010711	BCP5516E6327HTSA1	197
BC847B	3k	SP000010559	BC847BE6327HTSA1	194	BCP55	1k	SP000010713	BCP55E6327HTSA1	197
BC847BL3	15k	SP000013553	BC847BL3E6327XTMA1	194	BCP56-10	1k	SP000010712	BCP5610E6327HTSA1	197
BC847BW	10k	SP000746932	BC847BWH6433XTMA1	194	BCP56-16	1k	SP000010706	BCP5616E6327HTSA1	197
BC847BW	3k	SP000746930	BC847BWH6327XTSA1	194	BCP69-25	1k	SP000015154	BCP6925E6327HTSA1	197
BC847C	10k	SP000010590	BC847CE6433HTMA1	194	BCR08PN	10k	SP000750770	BCR08PNH6433XTMA1	192
BC847C	3k	SP000010565	BC847CE6327HTSA1	194	BCR08PN	3k	SP000750766	BCR08PNH6327XTSA1	192
BC847CW	10k	SP000747284	BC847CWH6433XTMA1	194	BCR08PN	3k	SP000750772	BCR08PNH6727XTSA1	192
BC847CW	3k	SP000746934	BC847CWH6327XTSA1	194	BCR108	10k	SP000010737	BCR108E6433HTMA1	191
BC847CW	3k	SP000747286	BC847CWH6778XTSA1	194	BCR108	3k	SP000010736	BCR108E6327HTSA1	191
BC847PN	10k	SP000747292	BC847PNH6433XTMA1	195	BCR108S	3k	SP000750774	BCR108SH6327XTSA1	192
BC847PN	3k	SP000747288	BC847PNH6327XTSA1	195	BCR108W	10k	SP000757882	BCR108WH6433XTMA1	191
BC847PN	3k	SP000747296	BC847PNH6727XTSA1	195	BCR108W	3k	SP000750780	BCR108WH6327XTSA1	191
BC847S	10k	SP000747404	BC847SH6433XTMA1	195	BCR10PN	10k	SP000750788	BCR10PNH6730XTMA1	192
BC847S	3k	SP000747298	BC847SH6327XTSA1	195	BCR10PN	3k	SP000750782	BCR10PNH6327XTSA1	192
BC847S	3k	SP000747406	BC847SH6727XTSA1	195	BCR10PN	3k	SP000750786	BCR10PNH6727XTSA1	192
BC848A	3k	SP000010568	BC848AE6327HTSA1	194	BCR112	3k	SP000010747	BCR112E6327HTSA1	191
BC848B	10k	SP000010581	BC848BE6433HTMA1	194	BCR112W	3k	SP000750790	BCR112WH6327XTSA1	191
BC848B	3k	SP000010561	BC848BE6327HTSA1	194	BCR116	10k	SP000010751	BCR116E6433HTMA1	191
BC848BL3	15k	SP000013554	BC848BL3E6327XTMA1	194	BCR116	3k	SP000010749	BCR116E6327HTSA1	191
BC848BW	3k	SP000747410	BC848BWH6327XTSA1	194	BCR116S	3k	SP000752050	BCR116SH6327XTSA1	192
BC848C	10k	SP000010582	BC848CE6433HTMA1	194	BCR116W	3k	SP000754072	BCR116WH6327XTSA1	191
BC848C	3k	SP000010552	BC848CE6327HTSA1	194	BCR119	3k	SP000010752	BCR119E6327HTSA1	191
BC848CW	3k	SP000747412	BC848CWH6327XTSA1	194	BCR119S	10k	SP000755042	BCR119SH6433XTMA1	192
BC849B	3k	SP000010567	BC849BE6327HTSA1	194	BCR119S	3k	SP000754074	BCR119SH6327XTSA1	192
BC849C	3k	SP000010564	BC849CE6327HTSA1	194	BCR119W	3k	SP000755044	BCR119WH6327XTSA1	191
BC849CW	3k	SP000747414	BC849CWH6327XTSA1	194	BCR129	3k	SP000012520	BCR129E6327HTSA1	191
BC850B	3k	SP000010572	BC850BE6327HTSA1	194	BCR129S	3k	SP000755046	BCR129SH6327XTSA1	192
BC850BW	3k	SP000747416	BC850BWH6327XTSA1	194	BCR129W	3k	SP000755048	BCR129WH6327XTSA1	191
BC850C	3k	SP000010563	BC850CE6327HTSA1	194	BCR133	10k	SP000010759	BCR133E6433HTMA1	191
BC850CW	3k	SP000747418	BC850CWH6327XTSA1	194	BCR133	3k	SP000010757	BCR133E6327HTSA1	191

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IPI80N08S2-07	SP000219043	IPI80N08S207AKSA1	85	IPP100N04S2-04	SP000219056	IPP100N04S204AKSA1	81
IPI80P03P4-04	SP000396318	IPI80P03P4L04AKSA1	89	IPP100N04S2L-03	SP000219062	IPP100N04S2L03AKSA1	81
IPI80P03P4-05	SP000396316	IPI80P03P405AKSA1	89	IPP100N04S3-03	SP000850486	IPP100N04S403DXKSA1	81
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IPI80P04P4-05	SP000652620	IPI80P04P405AKSA1	88	IPP100N04S4-H2	SP000711278	IPP100N04S4H2AKSA1	81
IPI80P04P4-07	SP000842042	IPI80P04P407AKSA1	88	IPP100N06S2-05	SP000218872	IPP100N06S205AKSA1	82
IPI80P04P4L-04	SP000840198	IPI80P04P4L04AKSA1	88	IPP100N06S2L-05	SP000218879	IPP100N06S2L05AKSA1	82
IPI80P04P4L-06	SP000842050	IPI80P04P4L06AKSA1	88	IPP100N08N3 G	SP000680856	IPP100N08N3GXKSA1	97
IPI80P04P4L-08	SP000840210	IPI80P04P4L08AKSA1	88	IPP100N08S2-07	SP000219005	IPP100N08S207AKSA1	85
IPI90N04S4-04	SP000646194	IPI90N04S402AKSA1	81	IPP100N08S2L-07	SP000219052	IPP100N08S2L07AKSA1	85
IPI90N06S4-04	SP000379633	IPI90N06S404AKSA1	84	IPP100N10S3-05	SP000407126	IPP100N10S305AKSA1	86
IPI90N06S4-04	SP001028758	IPI90N06S404AKSA2	84	IPP110N20N3 G	SP000677892	IPP110N20N3GXKSA1	101
IPI90N06S4L-04	SP000415696	IPI90N06S4L04AKSA1	84	IPP110N20NA	SP000877672	IPP110N20NAAKSA1	101
IPI90N06S4L-04	SP001028760	IPI90N06S4L04AKSA2	84	IPP111N15N3 G	SP000677860	IPP111N15N3GXKSA1	100
IPI90R1K0C3	SP000683078	IPI90R1K0C3XKSA1	115	IPP114N03L G	SP000264168	IPP114N03LGHKSA1	92
IPI90R1K2C3	SP000683080	IPI90R1K2C3XKSA1	115	IPP114N12N3 G	SP000652740	IPP114N12N3GXKSA1	100
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IPI90R500C3	SP000683084	IPI90R500C3XKSA1	115	IPP120N04S4-01	SP000705704	IPP120N04S401AKSA1	81
IPI90R800C3	SP000683086	IPI90R800C3XKSA1	115	IPP120N04S4-02	SP000764734	IPP120N04S402AKSA1	81
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IPL60R299CP	SP000841896	IPL60R299CPAUMA1	108	IPP120N06S4-02	SP001028774	IPP120N06S402AKSA2	85
IPL60R385CP	SP000841898	IPL60R385CPAUMA1	108	IPP120N06S4-03	SP000396380	IPP120N06S403AKSA1	85
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IPL65R230C7	SP001032728	IPL65R230C7AUMA1	112	IPP120N06S4-H1	SP000415698	IPP120N06S4H1AKSA1	85
IPL65R340CFD	SP000949258	IPL65R340CFDAUMA1	113	IPP120N06S4-H1	SP001028780	IPP120N06S4H1AKSA2	85
IPL65R460CFD	SP000949260	IPL65R460CFDAUMA1	113	IPP120P04P4-04	SP000842278	IPP120P04P404AKSA1	88
IPL65R725CFD	SP000949266	IPL65R725CFDAUMA1	113	IPP120P04P4L-03	SP000842300	IPP120P04P4L03AKSA1	88
IPN10EL-S	SP000862494	IPN10ELSXUMA1	141	IPP126N10N3 G	SP000683088	IPP126N10N3GXKSA1	99
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IPP023N04N G	SP000680762	IPP023N04NGXKSA1	94	IPP147N03L G	SP000266315	IPP147N03LGHKSA1	92
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IPP024N06N3 G	SP000680764	IPP024N06N3GXKSA1	96	IPP17N25S3-100	SP001025116	IPP17N25S3100AKSA1	86
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IPP029N06N	SP000917404	IPP029N06NAKSA1	96	IPP200N15N3 G	SP000680884	IPP200N15N3GXKSA1	100
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IPP032N06N3 G	SP000680770	IPP032N06N3GXKSA1	96	IPP22N03S4L-15	SP000275290	IPP22N03S4L15AKSA1	79
IPP034N03L G	SP000680772	IPP034N03LGHKSA1	92	IPP320N20N3 G	SP000677842	IPP320N20N3GXKSA1	101
IPP034N07N3 G	SP000843890	IPP034N07N3GHKSA1	97	IPP45N06S4-09	SP000374339	IPP45N06S409AKSA1	85
IPP034N07N3 G	SP000641724	IPP034N07N3GXKSA1	97	IPP45N06S4-09	SP001028648	IPP45N06S409AKSA2	85
IPP037N06L3 G	SP000680774	IPP037N06L3GXKSA1	96	IPP45N06S4L-08	SP000374340	IPP45N06S4L08AKSA1	85
IPP037N08N3 G	SP000680776	IPP037N08N3GXKSA1	97	IPP45N06S4L-08	SP001028650	IPP45N06S4L08AKSA2	85
IPP039N04L G	SP000680782	IPP039N04LGHKSA1	94	IPP45P03P4L-11	SP000396382	IPP45P03P4L11AKSA1	89
IPP040N06N	SP000959820	IPP040N06NAKSA1	96	IPP47N10S-33	SP000225706	IPP47N10S33AKSA1	86
IPP040N06N3 G	SP000680788	IPP040N06N3GXKSA1	96	IPP47N10SL-26	SP000225707	IPP47N10SL26AKSA1	86
IPP041N04N G	SP000680790	IPP041N04NGXKSA1	94	IPP50N10S3L-16	SP000407118	IPP50N10S3L16AKSA1	86
IPP041N12N3 G	SP000652746	IPP041N12N3GXKSA1	100	IPP50R140CP	SP000234986	IPP50R140CPHKSA1	104
IPP042N03L G	SP000680792	IPP042N03LGHKSA1	92	IPP50R140CP	SP000680932	IPP50R140CPXKSA1	104
IPP045N10N3 G	SP000680794	IPP045N10N3GXKSA1	99	IPP50R190CE	SP000850802	IPP50R190CEXKSA1	103
IPP048N04N G	SP000648308	IPP048N04NGXKSA1	94	IPP50R199CP	SP000236074	IPP50R199CPHKSA1	104
IPP048N12N3 G	SP000652734	IPP048N12N3GXKSA1	100	IPP50R199CP	SP000680934	IPP50R199CPXKSA1	104
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IPP052N06L3 G	SP000680802	IPP052N06L3GXKSA1	96	IPP50R250CP	SP000680936	IPP50R250CPXKSA1	104
IPP052NE7N3 G	SP000846650	IPP052NE7N3GHKSA1	97	IPP50R280CE	SP000850810	IPP50R280CEXKSA1	103
IPP052NE7N3 G	SP000641726	IPP052NE7N3GXKSA1	97	IPP50R299CP	SP000236070	IPP50R299CPHKSA1	104
IPP055N03L G	SP000680806	IPP055N03LGHKSA1	92	IPP50R299CP	SP000680938	IPP50R299CPXKSA1	104
IPP057N06N3 G	SP000680808	IPP057N06N3GXKSA1	96	IPP50R350CP	SP000236069	IPP50R350CPHKSA1	104
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IPP05CN10N G	SP000680814	IPP05CN10NGXKSA1	99	IPP50R380CE	SP000850818	IPP50R380CEXKSA1	103
IPP060N06N	SP000917402	IPP060N06NAKSA1	96	IPP50R399CP	SP000234985	IPP50R399CPHKSA1	104
IPP062NE7N3 G	SP000846652	IPP062NE7N3GHKSA1	97	IPP50R399CP	SP000680942	IPP50R399CPXKSA1	104
IPP062NE7N3 G	SP000819768	IPP062NE7N3GXKSA1	97	IPP50R500CE	SP000939326	IPP50R500CEXKSA1	103
IPP065N03L G	SP000680818	IPP065N03LGHKSA1	92	IPP50R520CP	SP000236068	IPP50R520CPHKSA1	104
IPP065N04N G	SP000648268	IPP065N04NGXKSA1	94	IPP50R520CP	SP000680944	IPP50R520CPXKSA1	104
IPP070N08N3 G	SP000680828	IPP070N08N3GXKSA1	97	IPP530N15N3 G	SP000521722	IPP530N15N3GXKSA1	100
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IPP075N15N3 G	SP000680832	IPP075N15N3GXKSA1	100	IPP60R074C6	SP000898652	IPP60R074C6XKSA1	107
IPP076N12N3 G	SP000652736	IPP076N12N3GXKSA1	100	IPP60R099C6	SP000687556	IPP60R099C6XKSA1	107
IPP080N03L G	SP000264166	IPP080N03LGHKSA1	92	IPP60R099CP	SP000057021	IPP60R099CPXKSA1	108
IPP084N06L3 G	SP000680838	IPP084N06L3GXKSA1	96	IPP60R099CPA	SP000315418	IPP60R099CPAAKSA1	87
IPP086N10N3 G	SP000680840	IPP086N10N3GXKSA1	99	IPP60R125C6	SP000685844	IPP60R125C6XKSA1	107