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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	Obsolete
Core Processor	C166SV2
Core Size	16/32-Bit
Speed	128MHz
Connectivity	CANbus, EBI/EMI, I ² C, LINbus, SPI, SSC, UART/USART, USI
Peripherals	I ² S, POR, PWM, WDT
Number of I/O	75
Program Memory Size	1.06MB (1.06M x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	98K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V
Data Converters	A/D 16x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	100-LQFP Exposed Pad
Supplier Device Package	PG-LQFP-100-8
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/xc2361e136f128laakxuma1

Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 8-bit				
XC800 Family XC835 & XC836 Series				
SAF-XC836-2FRI AB-Step	SP000843562	XC8362FRIABFXUMA1	PG-TSSOP-28-1	High performance XC800 core, based on industry standard 8051architecture, 8-Kbyte boot ROM, 8-Kbyte program flash, 0.128-Kbyte data flash, industry quality level, 256-byte RAM, 256-byte XRAM, capture/compare unit, three 16-bit timers/counters, eight 10-bit ADC channels, 16-bit vector computer for Field-Oriented Control (FOC) , programmable 16-bit watchdog timer, multiplication/division unit (MDU) and CORDIC module, LED and touch sense controller (LEDTSCU), no multiplication/division unit (MDU), no LED and touch sense controller (LEDTSCU), 24-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XC836M-1FRI AB-Step	SP000843556	XC836M1FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836-2FRI, 4-Kbyte program flash, multiplication/division unit (MDU) and CORDIC module, no LED and touch sense controller (LEDTSCU), tape & reel
SAF-XC836M-2FRI AB-Step	SP000843558	XC836M2FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836-2FRI, multiplication/division unit (MDU) and CORDIC module, no LED and touch sense controller (LEDTSCU), tape & reel
SAK-XC836MT-1FRA AB-Step	SP000848856	XC836MT1FRAABKXUMA1	PG-TSSOP-28-1	as SAF-XC836M-1FRI, automotive quality level, multiplication/division unit (MDU) and CORDIC module, LED and touch sense controller (LEDTSCU), -40°C to 125°C, tape & reel
SAK-XC836MT-2FRA AB-Step	SP000847972	XC836MT2FRAABKXUMA1	PG-TSSOP-28-1	as SAK-XC836MT-1FRA, 8-Kbyte program flash, tape & reel
SAF-XC836MT-2FRI AB-Step	SP000843560	XC836MT2FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836M-2FRI, multiplication/division unit (MDU) and CORDIC module, LED and touch sense controller (LEDTSCU), tape & reel
SAF-XC836T-2FRI AB-Step	SP000843554	XC836T2FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836MT-2FRI, no multiplication/division unit (MDU) and CORDIC module, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 32-bit				
TC17xx Family				
TC176 Series (Powertrain)				
(cont')				
SAK-TC1766-192F80HL BD-Step	SP000771726	TC1766192F80HLBDKXUMA2	PG-LQFP-176-5	High performance TriCore™ CPU with 4-stage pipeline 1.5-Mbyte embedded program flash, 32-Kbyte data flash, 76-Kbyte on-chip SRAM, one 32-channel analog-to-digital converter unit with 8-, 10- or 12-bit resolution, general purpose timer array module, two synchronous serial channels with programmable data length and shift direction, 2-channel fast analog-to-digital converter unit, OCDS level 1 and 2, multiCAN module with two CAN nodes, 80-MHz clock frequency, -40°C to 125°C, tape & reel
▼ SAK-TC1767-256F133HR AD-Step	SP000855112	TC1767256F133HRADKFQMA1	PG-LQFP-176-5	as SAK-TC1766-192F80HL, 2-Mbyte embedded program flash, 64-Kbyte data flash, 24-Kbyte on-chip SRAM, 133-MHz clock frequency, tray
▼ SAK-TC1767-256F133HR AD-Step	SP001007278	TC1767256F133HRADKXUMA1	PG-LQFP-176-5	as SAK-TC1767-256F133HR, tape & reel

TC178x Series (Powertrain)

SAK-TC1782F-320F180HR BA-Step	SP000862218	TC1782F320F180HRBAKXUMA1	PG-LQFP-176-10	High performance TriCore™ CPU with 4-stage pipeline (AUDO MAX) 2,5-Mbyte flash memory with ECC, 176-Kbyte local data memory (SRAM), 128-Kbyte data flash (EEPROM emulation), 16-Kbyte instruction cache, 16-channel DMA controller, three high-speed synchronous serial channel (SSC), one 16-channel A/D converter unit with selectable 8-bit, 10-bit, or 12-bit supporting 32 input channels, on-chip debug support (OCDS level 1), 2-channel FlexRay™ module, multiCAN module with three CAN nodes, 180-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-TC1782N-320F180HR BA-Step	SP000874788	TC1782N320F180HRBAKXUMA1	PG-LQFP-176-10	as SAK-TC1782F-320F180HR, no 2-channel FlexRay™ module, copper wire bond, tape & reel
▼ SAK-TC1782N-320F180HL BA-Step	SP000884904	TC1782N320F180HLBAKXUMA1	PG-LQFP-176-10	as SAK-TC1782F-320F180HR, gold wire bond, tape & reel
SAK-TC1784N-320F180EL BA-Step	SP000947718	TC1784N320F180ELBAKXUMA1	PG-LFBGA-292	as SAK-TC1782N-320F180HR, LFBGA package, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 32-bit				
XMC4400 Family (Industry)				
XMC4400-F100F256 AB-Step	SP001019638	XMC4400F100F256ABXQSA1	PG-LQFP-100-11	High performance ARM [®] Cortex™-M4 CPU 256-Kbyte embedded program flash, Ethernet MAC module, USB 2.0 host, memory protection unit (MPU), floating point unit, 80-Kbyte RAM, 4-Kbyte instruction cache, 12-channel DMA controller, one capture/compare unit (CCU8), two 8-channel A/D converter units of 12-bit resolution, on-chip debug support, multiCAN module with two CAN nodes, 120-MHz clock frequency, -40°C to 85°C, tray
XMC4400-F100K256 AB-Step	SP001019640	XMC4400F100K256ABXQSA1	PG-LQFP-100-11	as XMC4400-F100F256 -40°C to 125°C, tray
XMC4400-F100F512 AB-Step	SP001017518	XMC4400F100F512ABXQMA1	PG-LQFP-100-11	as XMC4400-F100F256, 512-Kbyte embedded program flash, -40°C to 85°C, tray
XMC4400-F100K512 AB-Step	SP001017494	XMC4400F100K512ABXQSA1	PG-LQFP-100-11	as XMC4400-F100F512, -40°C to 125°C, tray
XMC4400-F64F256 AB-Step	SP001020232	XMC4400F64F256ABXQMA1	PG-LQFP-64-19	as XMC4400-F100F256, LQFP package, tray
XMC4400-F64K256 AB-Step	SP001020234	XMC4400F64K256ABXQSA1	PG-LQFP-64-19	as XMC4400-F64F256, -40°C to 125°C, tray
XMC4400-F64F512 AB-Step	SP001017492	XMC4400F64F512ABXQMA1	PG-LQFP-64-19	as XMC4400-F64F256, 512-Kbyte embedded program flash, tray
XMC4400-F64K512 AB-Step	SP001017516	XMC4400F64K512ABXQSA1	PG-LQFP-64-19	as XMC4400-F64F512, -40°C to 125°C, tray
XMC4402-F100F256 AB-Step	SP001019642	XMC4402F100F256ABXQMA1	PG-LQFP-100-11	as XMC4400-F100F256, no Ethernet interface, -40°C to 85°C, tray
XMC4402-F100K256 AB-Step	SP001019646	XMC4402F100K256ABXQSA1	PG-LQFP-100-11	as XMC4402-F100F256, -40°C to 125°C, tray
XMC4402-F64F256 AB-Step	SP001019648	XMC4402F64F256ABXQMA1	PG-LQFP-64-19	as XMC4402-F100F256, LQFP-64 package, tray
XMC4402-F64K256 AB-Step	SP001019650	XMC4402F64K256ABXQSA1	PG-LQFP-64-19	as XMC4402-F64F256, -40°C to 125°C, tray

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

Automotive N-Channel MOSFETs

55V

BSO604NS2	SP000396268	BSO604NS2XUMA1	PG-DSO-8-5	55	2 x 35	1.2 ... 2.0	5.0
■ BSP603S2L	SP000431792	BSP603S2LHUMA1	SOT223	55	33	1.2 ... 2.0	5.2
IPB100N06S2L-05	SP000219003	IPB100N06S2L05ATMA1	PG-TO263-3-2	55	4.4	1.2 ... 2.0	100
IPB80N06S2L-05	SP000219004	IPB80N06S2L05ATMA1	PG-TO263-3-2	55	4.5	1.2 ... 2.0	80
IPB100N06S2-05	SP000218874	IPB100N06S205ATMA1	PG-TO263-3-2	55	4.7	2.1 ... 4.0	100
IPB80N06S2-05	SP000218877	IPB80N06S205ATMA1	PG-TO263-3-2	55	4.8	2.1 ... 4.0	80
IPB80N06S2L-H5	SP000219068	IPB80N06S2LH5ATMA1	PG-TO263-3-2	55	5.0	1.2 ... 2.0	80
IPB80N06S2-H5	SP000377048	IPB80N06S2H5AUMA1	PG-TO263-3-2	55	5.5	2.1 ... 4.0	80
IPB80N06S2-H5	SP000218162	IPB80N06S2H5ATMA1	PG-TO263-3-2	55	5.5	2.1 ... 4.0	80
IPB80N06S2L-06	SP000218163	IPB80N06S2L06ATMA1	PG-TO263-3-2	55	6.3	1.2 ... 2.0	80
IPB80N06S2-07	SP000218818	IPB80N06S207ATMA1	PG-TO263-3-2	55	6.6	2.1 ... 4.0	80
IPB80N06S2L-07	SP000218867	IPB80N06S2L07ATMA1	PG-TO263-3-2	55	7.0	1.2 ... 2.0	80
IPB80N06S2-08	SP000218830	IPB80N06S208ATMA1	PG-TO263-3-2	55	8.0	2.1 ... 4.0	80
IPB80N06S2L-09	SP000218743	IPB80N06S2L09ATMA1	PG-TO263-3-2	55	8.5	1.2 ... 2.0	80
IPB80N06S2-09	SP000218741	IPB80N06S209ATMA1	PG-TO263-3-2	55	9.1	2.1 ... 4.0	80
IPB80N06S2L-11	SP000218177	IPB80N06S2L11ATMA1	PG-TO263-3-2	55	11	1.2 ... 2.0	80
IPB77N06S2-12	SP000218173	IPB77N06S212ATMA1	PG-TO263-3-2	55	12	2.1 ... 4.0	77
IPD30N06S2L-13	SP000252167	IPD30N06S2L13ATMA1	PG-TO252-3-11	55	12.7	1.2 ... 2.0	30
IPD50N06S2L-13	SP000252172	IPD50N06S2L13ATMA1	PG-TO252-3-11	55	13	1.2 ... 2.0	50
IPD50N06S2-14	SP000252171	IPD50N06S214ATMA1	PG-TO252-3-11	55	14.4	2.1 ... 4.0	50
IPD30N06S2-15	SP000252160	IPD30N06S215ATMA1	PG-TO252-3-11	55	14.7	2.1 ... 4.0	30
IPD30N06S2-23	SP000252166	IPD30N06S223ATMA1	PG-TO252-3-11	55	23	2.1 ... 4.0	30
IPD30N06S2L-23	SP000252168	IPD30N06S2L23ATMA1	PG-TO252-3-11	55	23	1.2 ... 2.0	30
IPD26N06S2L-35	SP000252165	IPD26N06S2L35ATMA1	PG-TO252-3-11	55	35	1.2 ... 2.0	26
IPD25N06S2-40	SP000252164	IPD25N06S240ATMA1	PG-TO252-3-11	55	40	2.1 ... 4.0	25
▼ IPD15N06S2L-64	SP000252162	IPD15N06S2L64ATMA1	PG-TO252-3-11	55	64	1.2 ... 2.0	19
IPD14N06S2-80	SP000252161	IPD14N06S280ATMA1	PG-TO252-3-11	55	80	2.1 ... 4.0	14
IPG20N06S2L-35	SP000613718	IPG20N06S2L35ATMA1	PG-TDSON-8-4	55	2 x 35	1.2 ... 2.0	20
▼ IPG20N06S2L-35A	SP001023838	IPG20N06S2L35AATMA1	PG-TDSON-8-10	55	2 x 35	1.2 ... 2.0	20
IPG20N06S2L-50	SP000613728	IPG20N06S2L50ATMA1	PG-TDSON-8-4	55	2 x 50	1.2 ... 2.0	20
▼ IPG20N06S2L-50A	SP001023842	IPG20N06S2L50AATMA1	PG-TDSON-8-10	55	2 x 50	1.2 ... 2.0	20
IPG20N06S2L-65	SP000613722	IPG20N06S2L65ATMA1	PG-TDSON-8-4	55	2 x 65	1.2 ... 2.0	20
▼ IPG20N06S2L-65A	SP001023844	IPG20N06S2L65AATMA1	PG-TDSON-8-10	55	2 x 65	1.2 ... 2.0	20
IPI80N06S2L-05	SP000219002	IPI80N06S2L05AKSA1	PG-TO262-3-1	55	4.8	1.2 ... 2.0	80
IPI80N06S2-07	SP000218817	IPI80N06S207AKSA1	PG-TO262-3-1	55	6.6	2.1 ... 4.0	80
IPI80N06S2-08	SP000218828	IPI80N06S208AKSA1	PG-TO262-3-1	55	8.0	2.1 ... 4.0	80
IPI80N06S2L-11	SP000218176	IPI80N06S2L11AKSA1	PG-TO262-3-1	55	11	1.2 ... 2.0	80
IPP100N06S2-05	SP000218872	IPP100N06S205AKSA1	PG-TO220-3-1	55	4.7	2.1 ... 4.0	100
IPP100N06S2L-05	SP000218879	IPP100N06S2L05AKSA1	PG-TO220-3-1	55	4.7	1.2 ... 2.0	100
IPP80N06S2L-05	SP000219000	IPP80N06S2L05AKSA1	PG-TO220-3-1	55	4.8	1.2 ... 2.0	80
IPP80N06S2-05	SP000218873	IPP80N06S205AKSA1	PG-TO220-3-1	55	5.1	2.1 ... 4.0	80
IPP80N06S2L-H5	SP000219067	IPP80N06S2LH5AKSA1	PG-TO220-3-1	55	5.3	1.2 ... 2.0	80
IPP80N06S2-H5	SP000218155	IPP80N06S2H5AKSA1	PG-TO220-3-1	55	5.5	2.1 ... 4.0	80
IPP80N06S2-07	SP000218810	IPP80N06S207AKSA1	PG-TO220-3-1	55	6.3	2.1 ... 4.0	80
IPP80N06S2L-06	SP000218824	IPP80N06S2L06AKSA1	PG-TO220-3-1	55	6.3	1.2 ... 2.0	80
IPP80N06S2L-07	SP000218831	IPP80N06S2L07AKSA1	PG-TO220-3-1	55	7.0	1.2 ... 2.0	80
IPP80N06S2-08	SP000218826	IPP80N06S208AKSA1	PG-TO220-3-1	55	8.0	2.1 ... 4.0	80
IPP80N06S2-09	SP000218740	IPP80N06S209AKSA1	PG-TO220-3-1	55	8.5	2.1 ... 4.0	80
IPP80N06S2L-09	SP000218742	IPP80N06S2L09AKSA1	PG-TO220-3-1	55	9.1	1.2 ... 2.0	80

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

Automotive N-Channel MOSFETs

100V

▼	IPB180N10S4-02	SP001057184	IPB180N10S402ATMA1	PG-TO263-7-3	100	2.5	2.0 ... 3.5	180
	IPB100N10S3-05	SP000261243	IPB100N10S305ATMA1	PG-TO263-3-2	100	4.8	2.0 ... 4.0	100
	IPB70N10S3-05	SP000261246	IPB70N10S312ATMA1	PG-TO263-3-2	100	11.3	2.0 ... 4.0	70
	IPB70N10S3L-12	SP000379631	IPB70N10S3L12ATMA1	PG-TO263-3-2	100	11.8	2.0 ... 4.0	70
■	IPB50N10S3L-16	SP000386183	IPB50N10S3L16ATMA1	PG-TO263-3-2	100	15.4	1.2 ... 2.4	50
	IPB70N10SL-16	SP000225700	IPB70N10SL16ATMA1	PG-TO263-3-2	100	16	1.2 ... 2.0	70
■	IPB47N10SL-26	SP000225701	IPB47N10SL26ATMA1	PG-TO263-3-2	100	26	1.2 ... 2.0	47
	IPB35N10S3L-26	SP000776044	IPB35N10S3L26ATMA1	PG-TO263-3-2	100	26.3	1.2 ... 2.4	35
■	IPB47N10S-33	SP000225702	IPB47N10S33ATMA1	PG-TO263-3-2	100	33	2.1 ... 4.0	47
	IPD90N10S4L-06	SP000866562	IPD90N10S4L06ATMA1	PG-TO252-3-313	100	6.6	1.1 ... 2.1	90
	IPD70N10S3-12	SP000427248	IPD70N10S312ATMA1	PG-TO252-3-11	100	11.1	2.0 ... 4.0	70
	IPD70N10S3L-12	SP000261250	IPD70N10S3L12ATMA1	PG-TO252-3-11	100	11.5	1.2 ... 2.4	70
	IPD60N10S4L-12	SP000866550	IPD60N10S4L12ATMA1	PG-TO252-3-313	100	12	1.1 ... 2.1	60
	IPD50N10S3L-16	SP000386185	IPD50N10S3L16ATMA1	PG-TO252-3-11	100	15	1.2 ... 2.4	50
	IPD30N10S3L-34	SP000261248	IPD30N10S3L34ATMA1	PG-TO252-3-11	100	31	1.2 ... 2.4	30
	IPD35N10S3L-26	SP000386184	IPD35N10S3L26ATMA1	PG-TO252-3-11	100	26	1.2 ... 2.4	35
	IPG20N10S4L-22	SP000866570	IPG20N10S4L22ATMA1	PG-TDSON-8-4	100	2 x 22	1.1 ... 2.1	20
	IPG20N10S4L-35	SP000859022	IPG20N10S4L35ATMA1	PG-TDSON-8-4	100	2 x 35	1.1 ... 2.1	20
	IPG16N10S4-61	SP000892972	IPG16N10S461ATMA1	PG-TDSON-8-4	100	2 x 61	2.0 ... 3.5	16
	IPI100N10S3-05	SP000407128	IPI100N10S305AKSA1	PG-TO262-3-1	100	4.8	2.0 ... 4.0	100
	IPI70N10S3-05	SP000407124	IPI70N10S312AKSA1	PG-TO262-3-1	100	11.3	2.0 ... 4.0	70
	IPI70N10S3L-12	SP000427250	IPI70N10S3L12AKSA1	PG-TO262-3-1	100	12.1	2.0 ... 4.0	70
	IPI50N10S3L-16	SP000407120	IPI50N10S3L16AKSA1	PG-TO262-3-1	100	15.4	1.2 ... 2.4	50
■	IPI70N10SL-16	SP000225705	IPI70N10SL16AKSA1	PG-TO262-3-1	100	16	1.2 ... 2.0	70
■	IPI47N10SL-26	SP000225704	IPI47N10SL26AKSA1	PG-TO262-3-1	100	26	1.2 ... 2.0	47
■	IPI47N10S-33	SP000225703	IPI47N10S33AKSA1	PG-TO262-3-1	100	33	2.1 ... 4.0	47
	IPP100N10S3-05	SP000407126	IPP100N10S305AKSA1	PG-TO220-3-1	100	4.8	2.0 ... 4.0	100
	IPP70N10S3-12	SP000407122	IPP70N10S312AKSA1	PG-TO220-3-1	100	11.3	2.0 ... 4.0	70
	IPP70N10S3L-12	SP000427252	IPP70N10S3L12AKSA1	PG-TO220-3-1	100	12.1	2.0 ... 4.0	70
	IPP50N10S3L-16	SP000407118	IPP50N10S3L16AKSA1	PG-TO220-3-1	100	15.4	1.2 ... 2.4	50
■	IPP70N10SL-16	SP000225708	IPP70N10SL16AKSA1	PG-TO220-3-1	100	16	1.2 ... 2.0	70
■	IPP47N10SL-26	SP000225707	IPP47N10SL26AKSA1	PG-TO220-3-1	100	26	1.2 ... 2.0	47
■	IPP47N10S-33	SP000225706	IPP47N10S33AKSA1	PG-TO220-3-1	100	33	2.1 ... 4.0	47

250V

	IPB64N25S3-20	SP000876596	IPB64N25S320ATMA1	PG-TO263-3-2	250	20	2.0 ... 4.0	64
	IPB17N25S3-100	SP000876560	IPB17N25S3100ATMA1	PG-TO263-3-2	250	100	2.0 ... 4.0	17
	IPD5N25S3-430	SP000876584	IPD5N25S3430ATMA1	PG-TO252-3-313	250	430	2.0 ... 4.0	5
▼	IPP17N25S3-100	SP001025116	IPP17N25S3100AKSA1	PG-TO220-3-1	250	100	2.0 ... 4.0	17

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

40V

BSB014N04LX3 G	SP000597850	BSB014N04LX3GXUMA1	CanPAK™ M-size	40	1.4	2.0 ... 4.0	180
BSB015N04NX3 G	SP000597852	BSB015N04NX3GXUMA1	CanPAK™ M-size	40	1.5	2.0 ... 4.0	180
BSC010N04LS	SP000928282	BSC010N04LSATMA1	SuperSO8	40	1.0	1.2 ... 2.0	100
▼ BSC010N04LSI	SP000953210	BSC010N04LSIATMA1	SuperSO8	40	1.05	1.2 ... 2.0	100
BSC014N04LS	SP000871196	BSC014N04LSATMA1	SuperSO8	40	1.4	1.2 ... 2.0	100
▼ BSC014N04LSI	SP000953212	BSC014N04LSIATMA1	SuperSO8	40	1.45	1.2 ... 2.0	100
BSC016N04LS G	SP000394801	BSC016N04LSGATMA1	SuperSO8	40	1.6	1.2 ... 2.0	100
BSC017N04NS G	SP000394684	BSC017N04NSGATMA1	SuperSO8	40	1.7	2.0 ... 4.0	100
BSC018N04LS G	SP000388293	BSC018N04LSGATMA1	SuperSO8	40	1.8	1.2 ... 2.0	100
BSC019N04NS G	SP000388299	BSC019N04NSGATMA1	SuperSO8	40	1.9	2.0 ... 4.0	100
▼ BSC019N04LS	SP001067012	BSC019N04LSATMA1	SuperSO8	40	1.9	1.2 ... 2.0	100
▼ BSC022N04LS	SP001059844	BSC022N04LSATMA1	SuperSO8	40	2.2	1.2 ... 2.0	100
▼ BSC026N04LS	SP001067014	BSC026N04LSATMA1	SuperSO8	40	2.6	1.2 ... 2.0	100
BSC027N04LS G	SP000354810	BSC027N04LSGATMA1	SuperSO8	40	2.7	1.2 ... 2.0	100
BSC030N04NS G	SP000354811	BSC030N04NSGATMA1	SuperSO8	40	3.0	2.0 ... 4.0	100
▼ BSC032N04LS	SP001067018	BSC032N04LSATMA1	SuperSO8	40	3.2	1.2 ... 2.0	98
BSC035N04LS G	SP000391503	BSC035N04LSGATMA1	SuperSO8	40	3.5	1.2 ... 2.0	100
BSC050N04LS G	SP000354806	BSC050N04LSGATMA1	SuperSO8	40	5.0	1.2 ... 2.0	85
BSC054N04NS G	SP000354808	BSC054N04NSGATMA1	SuperSO8	40	5.4	2.0 ... 4.0	81
BSC059N04LS G	SP000391499	BSC059N04LSGATMA1	SuperSO8	40	5.9	1.2 ... 2.0	73
BSC093N04LS G	SP000387929	BSC093N04LSGATMA1	SuperSO8	40	9.3	1.2 ... 2.0	49
BSZ023N04LS	SP000953208	BSZ023N04LSATMA1	S3O8	40	2.35	1.2 ... 2.0	40
▼ BSZ028N04LS	SP001067016	BSZ028N04LSATMA1	S3O8	40	2.8	1.2 ... 2.0	40
▼ BSZ034N04LS	SP001067020	BSZ034N04LSATMA1	S3O8	40	3.4	1.2 ... 2.0	40
BSZ040N04LS G	SP000388295	BSZ040N04LSGATMA1	S3O8	40	4.0	1.2 ... 2.0	40
BSZ042N04NS G	SP000388300	BSZ042N04NSGATMA1	S3O8	40	4.2	2.0 ... 4.0	40
BSZ097N04LS G	SP000388296	BSZ097N04LSGATMA1	S3O8	40	9.7	1.2 ... 2.0	40
BSZ105N04NS G	SP000388301	BSZ105N04NSGATMA1	S3O8	40	10.5	2.0 ... 4.0	40
BSZ165N04NS G	SP000391523	BSZ165N04NSGATMA1	S3O8	40	16.5	2.0 ... 4.0	31
IPB011N04L G	SP000391498	IPB011N04LGATMA1	D²PAK 7pin	40	1.1	1.2 ... 2.0	180
IPB011N04N G	SP000388298	IPB011N04NGATMA1	D²PAK 7pin	40	1.1	2.0 ... 4.0	180
IPB015N04L G	SP000387948	IPB015N04LGATMA1	D²PAK 7pin	40	1.5	1.2 ... 2.0	120
IPB015N04N G	SP000391522	IPB015N04NGATMA1	D²PAK	40	1.5	2.0 ... 4.0	120
IPB020N04N G	SP000359157	IPB020N04NGATMA1	D²PAK 7pin	40	2.0	2.0 ... 4.0	140
IPD036N04L G	SP000387945	IPD036N04LGBTMA1	DPAK	40	3.6	1.0 ... 2.0	90
IPP015N04N G	SP000680760	IPP015N04NGXKSA1	TO-220	40	1.5	2.0 ... 4.0	120
IPP023N04N G	SP000680762	IPP023N04NGXKSA1	TO-220	40	2.3	2.0 ... 4.0	90
IPP039N04L G	SP000680782	IPP039N04LGXKSA1	TO-220	40	3.9	1.2 ... 2.0	80
IPP041N04N G	SP000680790	IPP041N04NGXKSA1	TO-220	40	4.1	2.0 ... 4.0	80
IPP048N04N G	SP000648308	IPP048N04NGXKSA1	TO-220	40	4.8	2.0 ... 4.0	70
IPP065N04N G	SP000648268	IPP065N04NGXKSA1	TO-220	40	6.5	2.0 ... 4.0	50

55V

BSS670S2L	SP000928950	BSS670S2LH6327XTSA1	SOT23	55	650	1.2 ... 2.0	0.54
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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
■ 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
▼ BSZ150N10LS3 G	SP001002916	BSZ150N10LS3GATMA1	S3O8	100	15	1.1 ... 2.1	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**650V
CFD Series**

IPA65R110CFD	SP000895230	IPA65R110CFDXKSA1	TO-220 FullPAK	650	110	3.5... 4.5	31.2
IPA65R150CFD	SP000907026	IPA65R150CFDXKSA1	TO-220 FullPAK	650	150	3.5... 4.5	22.4
IPA65R190CFD	SP000905382	IPA65R190CFDXKSA1	TO-220 FullPAK	650	190	3.5... 4.5	17.5
IPA65R310CFD	SP000890320	IPA65R310CFDXKSA1	TO-220 FullPAK	650	310	3.5... 4.5	11.4
IPA65R420CFD	SP000890322	IPA65R420CFDXKSA1	TO-220 FullPAK	650	420	3.5... 4.5	8.7
IPA65R660CFD	SP000838284	IPA65R660CFDXKSA1	TO-220 FullPAK	650	660	3.5... 4.5	6.0
IPB65R110CFD	SP000896400	IPB65R110CFDATMA1	D ² PAK	650	110	3.5... 4.5	31.2
IPB65R150CFD	SP000907034	IPB65R150CFDATMA1	D ² PAK	650	150	3.5... 4.5	22.4
IPB65R190CFD	SP000905378	IPB65R190CFDATMA1	D ² PAK	650	190	3.5... 4.5	17.5
IPB65R310CFD	SP000745032	IPB65R310CFDATMA1	D ² PAK	650	310	3.5... 4.5	11.4
IPB65R420CFD	SP000890680	IPB65R420CFDATMA1	D ² PAK	650	420	3.5... 4.5	8.7
▼ IPB65R660CFD	SP000861698	IPB65R660CFDATMA1	D ² PAK	650	660	3.5... 4.5	6.0
▼ IPD65R420CFD	SP001117738	IPD65R420CFDATMA1	DPAK	650	420	3.5... 4.5	8.7
IPD65R420CFD	SP000891704	IPD65R420CFDBTMA1	DPAK	650	420	3.5... 4.5	8.7
▼ IPD65R660CFD	SP001117748	IPD65R660CFDATMA1	DPAK	650	660	3.5... 4.5	6.0
IPD65R660CFD	SP000745024	IPD65R660CFDBTMA1	DPAK	650	660	3.5... 4.5	6.0
▼ IPD65R950CFD	SP001117750	IPD65R950CFDATMA1	DPAK	650	950	3.5... 4.5	3.9
IPD65R950CFD	SP000953124	IPD65R950CFDBTMA1	DPAK	650	950	3.5... 4.5	3.9
▼ IPD65R1K4CFD	SP001117732	IPD65R1K4CFDATMA1	DPAK	650	1400	3.5... 4.5	2.8
IPD65R1K4CFD	SP000953126	IPD65R1K4CFDBTMA1	DPAK	650	1400	3.5... 4.5	2.8
IPI65R110CFD	SP000896398	IPI65R110CFDXKSA1	I ² PAK	650	110	3.5... 4.5	31.2
IPI65R150CFD	SP000907028	IPI65R150CFDXKSA1	I ² PAK	650	150	3.5... 4.5	22.4
IPI65R190CFD	SP000905386	IPI65R190CFDXKSA1	I ² PAK	650	190	3.5... 4.5	17.5
IPI65R310CFD	SP000891700	IPI65R310CFDXKSA1	I ² PAK	650	310	3.5... 4.5	11.4
IPI65R420CFD	SP000891702	IPI65R420CFDXKSA1	I ² PAK	650	420	3.5... 4.5	8.7
IPI65R660CFD	SP000861696	IPI65R660CFDXKSA1	I ² PAK	650	660	3.5... 4.5	6.0
▼ IPL65R340CFD	SP000949258	IPL65R340CFDAUMA1	ThinPAK 8x8	650	340	3.5... 4.5	10.9
▼ IPL65R460CFD	SP000949260	IPL65R460CFDAUMA1	ThinPAK 8x8	650	460	3.5... 4.5	8.3
▼ IPL65R725CFD	SP000949266	IPL65R725CFDAUMA1	ThinPAK 8x8	650	725	3.5... 4.5	5.8
IPP65R110CFD	SP000895226	IPP65R110CFDXKSA1	TO-220	650	110	3.5... 4.5	31.2
IPP65R150CFD	SP000907024	IPP65R150CFDXKSA1	TO-220	650	150	3.5... 4.5	22.4
IPP65R190CFD	SP000881160	IPP65R190CFDXKSA1	TO-220	650	190	3.5... 4.5	17.5
IPP65R310CFD	SP000745028	IPP65R310CFDXKSA1	TO-220	650	310	3.5... 4.5	11.4
IPP65R420CFD	SP000876824	IPP65R420CFDXKSA1	TO-220	650	420	3.5... 4.5	8.7
IPP65R660CFD	SP000745026	IPP65R660CFDXKSA1	TO-220	650	660	3.5... 4.5	6.0
IPW65R041CFD	SP000756288	IPW65R041CFDFKSA1	TO-247	650	41	3.5... 4.5	68.5
IPW65R080CFD	SP000745036	IPW65R080CFDFKSA1	TO-247	650	80	3.5... 4.5	43.3
IPW65R110CFD	SP000895232	IPW65R110CFDFKSA1	TO-247	650	110	3.5... 4.5	31.2
IPW65R150CFD	SP000907038	IPW65R150CFDFKSA1	TO-247	650	150	3.5... 4.5	22.4
IPW65R190CFD	SP000905376	IPW65R190CFDFKSA1	TO-247	650	190	3.5... 4.5	17.5
IPW65R310CFD	SP000890688	IPW65R310CFDFKSA1	TO-247	650	310	3.5... 4.5	11.4
IPW65R420CFD	SP000890686	IPW65R420CFDFKSA1	TO-247	650	420	3.5... 4.5	8.7
IPW65R660CFD	SP000861700	IPW65R660CFDFKSA1	TO-247	650	660	3.5... 4.5	6.0

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_s	$R_{DS(on)}$	$I_{L(nom)} \text{ min.}$	$I_{L(SCP)} \text{ typ.}$
				V	mΩ	A	A

Smart High-Side Switches

Four Channel PROFET™ for automotive applications

BTS4130QGA	SP000360283	BTS4130QGAXUMA1	PG-DSO-20-32	43	4 x 130	1.8	5
BTS711L1	SP000379623	BTS711L1XUMA1	PG-DSO-20-9	40	4 x 200	1.7	7.5
BTS712N1	SP000317660	BTS712N1XUMA1	PG-DSO-20-9	40	4 x 200	1.7	7.5
BTS716G	SP000313686	BTS716GXUMA1	PG-DSO-20-9	40	4 x 140	2.3	9
BTS716GB	SP000272337	BTS716GBXUMA1	PG-DSO-20-9	40	4 x 140	2.3	9
BTS721L1	SP000317661	BTS721L1XUMA1	PG-DSO-20-9	40	4 x 100	2.5	14
BTS724G	SP000313543	BTS724GXUMA1	PG-DSO-20-9	40	4 x 90	3.0	15

Four Channel PROFET™ for industrial applications

ITS711L1	SP000219532	ITS711L1FUMA1	PG-DSO-20-9	40	4 x 200	1.7	7.5
ITS716G	SP000219534	ITS716GFUMA1	PG-DSO-20-9	40	4 x 140	2.3	9
ITS724G	SP000219835	ITS724GFUMA1	PG-DSO-20-9	40	4 x 90	3.7	15

Eight Channel PROFET™ for automotive applications

BTS4880R	SP000276938	BTS4880RAUMA1	PG-DSO-36-12	47	8 x 200	1.4	3
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Eight Channel PROFET™ for industrial applications

ITS42008-SB-D	SP001007690	ITS42008SBDAUMA1	PG-DSO-36-12	47	8 x 150	-	1.1
ITS4880R	SP000219527	ITS4880RCUMA1	PG-DSO-36-12	47	8 x 200	-	3.0

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
Power Management ICs				
IGBT Gate Driver ICs				
EiceDRIVER™				
1ED020I12-B2	SP000898878	1ED020I12B2XUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of ±2A (EiceDRIVER™), basic isolation, tape & reel
1ED020I12-BT	SP000920032	1ED020I12BTXUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of ±2A (EiceDRIVER™), two level turn-off, tape & reel
■ 1ED020I12-F	SP000922444	1ED020I12FXUMA2	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of ±2A (EiceDRIVER™), tape & reel
1ED020I12-F2	SP000920028	1ED020I12F2XUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of ±2A (EiceDRIVER™), tape & reel
1ED020I12-FT	SP000920030	1ED020I12FTXUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of ±2A (EiceDRIVER™), two level turn-off, tape & reel
▼ 1ED020I12FA2	SP001080574	1ED020I12FA2XUMA2	PG-DSO-20-55	Single IGBT driver IC, (600/1200V) gate drive currents of ±2A (EiceDRIVER™), automotive qualified, tape & reel
▼ 1ED020I12FTA	SP001054670	1ED020I12FTAXUMA2	PG-DSO-20-55	Single IGBT driver IC, (600/1200V) gate drive currents of ±2A (EiceDRIVER™), automotive qualified, two level turn-off, tape & reel
▼ 1EDI30J12CL	SP000914420	1EDI30J12CLXUMA1	PG-DSO-16-15	Single Channel Direct Drive IC, (1200V) gate drive currents of ±3A (EiceDRIVER™), tape & reel
▼ 1EDI30J12CP	SP000923984	1EDI30J12CPXUMA1	PG-DSO-19-1	Single Channel Direct Drive IC, (1200V) gate drive currents of ±3A (EiceDRIVER™), tape & reel
2ED020I12-FI	SP000265782	2ED020I12FIXUMA1	PG-DSO-18-2	Half bridge IGBT driver IC (1200V), gate drive currents of +1A/-2A (EiceDRIVER™), tape & reel
2ED020I12-F2	SP000920036	2ED020I12F2XUMA1	PG-DSO-36-58	Half bridge IGBT driver IC (600/1200V), gate drive currents of ±2A (EiceDRIVER™), tape & reel
▼ 2ED020I12FA	SP001054678	2ED020I12FAXUMA2	PG-DSO-36	Half bridge IGBT driver IC (600V), gate drive currents of +1A/-2A (EiceDRIVER™), automotive qualified, tape & reel
2ED020I06-FI	SP000776988	2ED020I06FIXUMA1	PG-DSO-18-2	Half bridge IGBT driver IC (600V), gate drive currents of +1A/-2A (EiceDRIVER™), tape & reel
6ED003L02-F2	SP000919390	6ED003L02F2XUMA1	PG-TSSOP-28	Integrated 3-phase bridge driver IGBT/MOS (200V), (EiceDRIVER™), tape & reel
6ED003L06-F2	SP000929928	6ED003L06F2XUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), tape & reel
6EDL04I06NT	SP000926082	6EDL04I06NTXUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), input logic negative, tape & reel
6EDL04I06PT	SP000926088	6EDL04I06PTXUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), input logic positive, tape & reel
6EDL04N02PR	SP000926072	6EDL04N02PRXUMA1	PG-TSSOP-28	Integrated 3-phase bridge driver IGBT/MOS (200V), (EiceDRIVER™), input logic positive, tape & reel
6EDL04N06PT	SP000926102	6EDL04N06PTXUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), input logic positive, tape & reel

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
Coreless Transformer ISOFACE™				
ISO1H801G	SP000722122	ISO1H801GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625A high-side output, 5V operating voltage, tape & reel
ISO1H811G	SP000413798	ISO1H811GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625A high-side output, 3.3 - 5V operating voltage, UL508 compliant, isolated return path for DIAG signal, tape & reel
ISO1H812G	SP000413800	ISO1H812GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625A high-side output, 3.3 - 5V operating voltage, UL508 compliant, isolated return path for DIAG signal, tape & reel
ISO1H815G	SP000555576	ISO1H815GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 1.2A high-side output, 3.3 - 5V operating voltage, isolated return path for DIAG signal, tape & reel
ISO1H816G	SP000555578	ISO1H816GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 1.2A high-side output, 3.3 - 5V operating voltage, isolated return path for DIAG signal, tape & reel
ISO1I811T	SP000876494	ISO1I811TXUMA1	PG-TSSOP-48	Isolated 8-channel digital input with IEC61131-2 type 1/2/3 characteristics for industrial applications, status LED output for each input, 3.3 - 5V operating voltage, isolation between input and output using Coreless Transformer Technology, 125-kHz sampling frequency, tape & reel
ISO1I813T	SP000876504	ISO1I813TXUMA1	PG-TSSOP-48	Isolated 8-channel digital input with IEC61131-2 type 1/2/3 characteristics for industrial applications, status LED output for each input, 3.3 - 5V operating voltage, isolation between input and output using Coreless Transformer Technology, 500-kHz sampling frequency, tape & reel

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
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Power Management ICs

Function and Industrial ICs

Proximity Switches

■ TCA355G	SP000697950	TCA355GXLLA1	PG-DSO-8-1	ICs for inductive proximity switches, tube
■ TCA355G GEG	SP000744922	TCA355GGEGXUMA1	PG-DSO-8-1	ICs for inductive proximity switches, tape & reel
TCA505BG GEG	SP000242373	TCA505BGGEGXUMA1	P-DSO-16-1	ICs for inductive proximity switches with short-circuit protection, tape & reel

Power Driver ICs

FZL4146G	SP000087989	FZL4146GGEGHUMA1	PG-DSO-20-7	Short-circuit signaling, four driver circuits for driving power transistors, turn-ON threshold setting from 1.5 to 7V
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Phase Control

TCA785	SP000011719	TCA785HKLA1	P-DIP-16-1	Phase control, tube
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Audible Signal ICs

SAE0800G	SP000697948	SAE800GXLLA1	PG-DSO-8-1	Programmable single-, dual- and triple-tone gong, tube
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SMD = Surface Mounted Device

RF & Protection Devices

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

UHF and VHF Tuner (cont'd)

BB639 matched	3k*	SP000010401	BB639E7904HTSA1	SOD323	30	20	36...42	1	13.5
BB639C matched	3k*	SP000010396	BB639CE7904HTSA1	SOD323	30	20	36...42	1	11.1
BB639C unmatched	3k*	SP000010398	BB639CE7908HTSA1	SOD323	30	20	36...42	1	11.1
BB640 matched	3k*	SP000010406	BB640E6327HTSA1	SOD323	30	20	62...76	1	19.5
BB644 matched	3k*	SP000010411	BB644E7904HTSA1	SOD323	30	20	39... 44.5	1	11.8
BB659 matched	3k*	SP000745102	BB659H7902XTSA1	SCD 80	30	20	36...40	1	14.7
BB659C matched	3k*	SP000734324	BB659CH7902XTSA1	SCD80	30	20	36...40	1	11.1
BB659C matched	8k*	SP000745104	BB659CH7912XTSA1	SCD80	30	20	36...42	1	11.1
BB659C matched	10k*	SP000734342	BB659CH7903XTMA1	SCD80	30	20	36...42	1	11.1
BB659C-02V matched	3k*	SP000745108	BB659C02VH7902XTSA1	SC79	30	20	36.5... 42	1	9.5 ... 11.1
BB659C-02V unmatched	3k*	SP000745110	BB659C02VH7908XTSA1	SC79	30	20	36.5... 42	1	9.5 ... 11.1
BB659C-02V matched	8k*	SP000745112	BB659C02VH7912XTSA1	SC79	30	20	36.5... 42	1	9.5 ... 11.1
BB664 matched	3k*	SP000745114	BB664H7902XTSA1	SCD80	30	20	39... 44.5	1	11.8
BB664-02V matched	3k*	SP000745118	BB66402VH7902XTSA1	SC79	30	20	39... 44.5	1	11.8
BB669 matched	3k*	SP000010419	BB669E7904HTSA1	SOD323	30	20	51... 61.5	1	15.5
BB689 matched	3k*	SP000734326	BB689H7902XTSA1	SCD80	30	20	51... 61.5	1	15.5
BB689 unmatched	3k*	SP000745122	BB689H7908XTSA1	SCD80	30	20	51... 61.5	1	15.5
BB689 matched	8k*	SP000842828	BB689H7912XTSA1	SCD80	30	20	51... 61.5	1	15.5
BB689-02V matched	3k*	SP000745124	BB68902VH7902XTSA1	SC79	30	20	51... 61.5	1	15.5
BB689-02V unmatched	3k*	SP000745126	BB68902VH7908XTSA1	SC79	30	20	51... 61.5	1	15.5

* order unit

SMD = Surface Mounted Device

RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Characteristics		
				V_{RWM} V	<i>EFT</i> IEC61000-4-4 A	V_{ESD} IEC61000-4-2 kV

ESD and EMI Protection Devices and Filters

TVS Diodes for ESD/Transient Protection in Human Interface Devices (keypad, keyboard, touchpad, buttons, etc.) (cont'd)

Implementation of these devices in some other application categories is possible. Please consult your Infineon Sales contact.

▼ ESD300-B1-02LRH	15k*	SP001090470	ESD300B102LRHE6327XTSA1	TSLP-2-21	±3.3	n.a.	±30
▼ ESD200-B1-CSP0201	15k*	SP000992756	ESD200B1CSP0201XTSA1	WLL-2-1	±5.5	n.a.	±16
▼ ESD203-B1-02EL	15k*	SP001112360	ESD203B102ELE6327XTMA1	TSLP-2-20	±12	50	±30
▼ ESD203-B1-02ELS	15k*	SP001117372	ESD203B102ELSE6327XTSA1	TSSLP-2-3	±12	50	±30
▼ ESD204-B1-02EL	15k*	SP001113390	ESD204B102ELE6327XTMA1	TSLP-2-20	-8/+14	40	±20
▼ ESD204-B1-02ELS	15k*	SP001061700	ESD204B102ELSE6327XTSA1	TSSLP-2-3	-8/+14	40	±20
ESD205-B1-02ELS	15k*	SP001014496	ESD205B102ELSE6327XTSA1	TSSLP-2-3	±5.5	40	±20
▼ ESD206-B1-02EL	15k*	SP001123720	ESD206B102ELE6327XTMA1	TSLP-2-20	±5.5	50	±30
▼ ESD206-B1-02ELS	15k*	SP001117378	ESD206B102ELSE6327XTSA1	TSSLP-2-3	±5.5	50	±30
▼ ESD206-B1-02V	15k*	SP001107442	ESD206B102VE6327XTSA1	SC79	±5.5	50	±30
▼ ESD207-B1-02EL	15k*	SP001112362	ESD207B102ELE6327XTMA1	TSLP-2-20	±3.3	40	±30
▼ ESD207-B1-02ELS	15k*	SP001109118	ESD207B102ELSE6327XTSA1	TSSLP-2-3	±3.3	40	±30
▼ ESD208-B1-02EL	15k*	SP001139550	ESD208B102ELE6327XTMA1	TSLP-2-20	±3.3	80	±30
▼ ESD208-B1-02ELS	15k*	SP001131980	ESD208B102ELSE6327XTSA1	TSSLP-2-3	±3.3	80	±30

TVS Diodes for ESD Surge Protection (Gigabit Ethernet)

Implementation of these devices in some other application categories is possible. Please consult your Infineon Sales contact.

■ ESD5V5S1B-02LRH	15k*	SP001024008	ESD5V5S1B02LRHE6327XTSA1	TSLP-2-17	5.5	12	±30
TVS3V3L4U	3k*	SP000942748	TVS3V3L4UE6327HTSA1	SC74	3.3	80	±30
▼ ESD300-B1-02LRH	15k*	SP001090470	ESD300B102LRHE6327XTSA1	TSLP-2-21	±3.3	n.a.	±30
ESD5V0S1U-03W	3k*	SP000205608	ESD5V0S1U03WE6327HTSA1	SOD323	5	80	±30
ESD5V0S2U-06	3k*	SP000205610	ESD5V0S2U06E6327HTSA1	SOT23	5	80	±30
ESD5V0S4US	3k*	SP000753522	ESD5V0S4USH6327XTSA1	SOT363	5	80	±30
ESD5V0S5US	3k*	SP000753524	ESD5V0S5USH6327XTSA1	SOT363	5	80	±30

TVS Diode for ESD/Transient Protection in Wireline Communication Applications (ADSL, VDSL)

DSL70	3k*	SP000362209	DSL70E6327HTSA1	SOT143	50	80	15
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7-Line ESD and EMI Interface Protection Device

▼ BGF148	7.5k*	SP001033192	BGF148E6327XTSA1	TSNP-14-2	6.5	n.a.	±15
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* 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 $I_{\text{C}} \geq 500\text{mA}$

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	≥ 100	100	1
SMBTA06	10k*	SP000011688	SMBTA06E6433HTMA1	SOT23	80	500	≥ 100	100	1
SMBTA56	3k*	SP000011692	SMBTA56E6327HTSA1	SOT23	80	500	≥ 100	100	1
SMBTA56	10k*	SP000011695	SMBTA56E6433HTMA1	SOT23	80	500	≥ 100	100	1

Dual $I_{\text{C}} \leq 500\text{mA}$

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	≥ 100	100	1

* order unit

SMD = Surface Mounted Device

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

High Voltage Transistors ($V_{\text{CEP}} \geq 100\text{V}$)

BCX41	3k*	SP000010894	BCX41E6327HTSA1	SOT23	125	1000	≥ 63	100	1
BCX41	10k*	SP000010896	BCX41E6433HTMA1	SOT23	125	1000	≥ 63	100	1
BCX42	3k*	SP000010900	BCX42E6327HTSA1	SOT23	125	1000	≥ 63	100	1
BCX42	10k*	SP000010902	BCX42E6433HTMA1	SOT23	125	1000	≥ 63	100	1
BFN18	1k*	SP000010997	BFN18E6327HTSA1	SOT89	300	500	≥ 30	30	10
BFN19	1k*	SP000010998	BFN19E6327HTSA1	SOT89	300	500	≥ 30	30	10
BFN24	3k*	SP000014784	BFN24E6327HTSA1	SOT23	250	500	≥ 40	30	10
BFN26	3k*	SP000014785	BFN26E6327HTSA1	SOT23	300	500	≥ 30	30	10
BFN27	3k*	SP000014782	BFN27E6327HTSA1	SOT23	300	500	≥ 30	30	10
BFN38	1k*	SP000011006	BFN38E6327HTSA1	SOT223	300	500	≥ 30	30	10
BFN39	1k*	SP000014781	BFN39E6327HTSA1	SOT223	300	500	≥ 30	30	10
PZTA42	1k*	SP000014780	PZTA42E6327HTSA1	SOT223	300	500	≥ 40	30	10
SMBTA42	3k*	SP000011000	SMBTA42E6327HTSA1	SOT23	300	500	≥ 40	30	10
SMBTA92	3k*	SP000011004	SMBTA92E6327HTSA1	SOT23	300	500	≥ 25	30	10
PZTA92	4k*	SP000011009	PZTA92E6433HTMA1	SOT223	300	500	≥ 25	30	10

Darlington Transistors ($h_{\text{FE}} \geq 2000$)

BCP49	1k*	SP000010685	BCP49E6327HTSA1	SOT223	60	800	≥ 10000	100	5
BCV26	3k*	SP000010874	BCV26E6327HTSA1	SOT23	30	500	≥ 20000	100	5
BCV27	3k*	SP000010865	BCV27E6327HTSA1	SOT23	30	800	≥ 20000	100	5
BCV28	1k*	SP000010879	BCV28E6327HTSA1	SOT89	30	800	≥ 20000	100	5
BCP29	1k*	SP000010883	BCV29E6327HTSA1	SOT89	30	800	≥ 20000	100	5
BCV46	3k*	SP000010873	BCV46E6327HTSA1	SOT23	60	500	≥ 10000	100	5
BCV47	3k*	SP000010866	BCV47E6327HTSA1	SOT23	60	800	≥ 10000	100	5
BCV47	10k*	SP000010864	BCV47E6433HTMA1	SOT23	60	800	≥ 10000	100	5
BCV48	1k*	SP000010880	BCV48E6327HTSA1	SOT89	60	800	≥ 10000	100	5
BCV49	1k*	SP000010882	BCV49E6327HTSA1	SOT89	60	800	≥ 10000	100	5
BSP50	1k*	SP000011126	BSP50E6327HTSA1	SOT223	45	2000	≥ 2000	500	10
BSP51	1k*	SP000011127	BSP51E6327HTSA1	SOT223	60	2000	≥ 2000	500	10
BSP52	1k*	SP000011128	BSP52E6327HTSA1	SOT223	80	2000	≥ 2000	500	10
BSP60	1k*	SP000011131	BSP60E6327HTSA1	SOT223	45	2000	≥ 2000	500	10
BSP61	1k*	SP000011132	BSP61E6327HTSA1	SOT223	60	2000	≥ 2000	500	10
BSP62	1k*	SP000011133	BSP62E6327HTSA1	SOT223	80	2000	≥ 2000	500	10
PZTA14	1k*	SP000010688	PZTA14E6327HTSA1	SOT223	30	500	≥ 20000	100	5
SMBTA14	3k*	SP000010872	SMBTA14E6327HTSA1	SOT23	30	500	≥ 20000	100	5

* order unit

SMD = Surface Mounted Device

Sensors & Wireless Control

Type	Ordering Code	Orderable Part Number	Package	Characteristics			
				Application	Direction Detection	Type of Hysteresis	Interface
Magnetic Sensors							
Magnetic Speed Sensors (Hall)							
TLE4921-5U	SP000013593	TLE49215UHALA1	PG-SSO-4	Transmission Crankshaft	-	visible fixed	voltage
TLE4924C-1 E6547	SP000718170	TLE4924C1E6547HAMA1	PG-SSO-3	Crankshaft	-	visible fixed	voltage
TLE4924C-2 E6547	SP000718250	TLE4924C2E6547HAMA1	PG-SSO-3	Crankshaft	-	visible adaptive	voltage
TLE4926C-HT E6547	SP000718258	TLE4926CHTE6547HAMA1	PG-SSO-3	Crankshaft	-	hidden fixed	voltage
TLE4927C E6547	SP000718266	TLE4927CE6547HAMA1	PG-SSO-3	Transmission Crankshaft	-	hidden adaptive	voltage
TLE4928	SP000700818	TLE4928HALA1	PG-SSO-3	Transmission Crankshaft	-	hidden fixed	voltage
TLE4928C E6547	SP000718274	TLE4928CE6547HAMA1	PG-SSO-3	Transmission Crankshaft	-	hidden fixed	voltage
TLE4941C	SP000710666	TLE4941CBAMA1	PG-SSO-2	ABS Transmission	-	hidden fixed	current
TLE4941 PLUSC	SP000478508	TLE4941PLUSCAAMA1	PG-SSO-2	ABS Transmission	-	hidden fixed	current
TLE4942-1C	SP000710676	TLE49421CBAMA1	PG-SSO-2	ABS Transmission	yes	hidden fixed	current
TLE4953	SP000278512	TLE4953HALA1	PG-SSO-2	Transmission	yes	visible adaptive	current
TLE4953C	SP000710696	TLE4953CBAMA1	PG-SSO-2	Transmission	yes	visible adaptive	current
TLE4954C	SP000848260	TLE4954CCAMA1	PG-SSO-2	Transmission	yes	visible adaptive	current
TLE4954C E1	SP000848264	TLE4954CE1CAMA1	PG-SSO-2	Transmission	yes	visible adaptive	current
TLE4954C E2	SP000848268	TLE4954CE2CAMA1	PG-SSO-2	Transmission	yes	visible adaptive	current
TLE4954C E4	SP001050144	TLE4954CE4CAMA1	PG-SSO-2	Transmission	yes	visible adaptive	current
TLE4957C E6247	SP000857052	TLE4957CE6247HAMA1	PG-SSO-3	Transmission	-	hidden adaptive	voltage
TLE4957C E6747	SP000649296	TLE4957CE6747HAMA1	PG-SSO-3	Transmission	yes	hidden adaptive	voltage
TLE4957C-2 E6247	SP000849660	TLE4957C2E6247HAMA1	PG-SSO-3	Transmission	-	visible adaptive	voltage
TLE4957C-2 E6747	SP000745374	TLE4957C2E6747HAMA1	PG-SSO-3	Transmission	yes	visible adaptive	voltage
TLE4983C-HT E6547	SP000614788	TLE4983CHTE6547HAMA1	PG-SSO-3	Camshaft	-	hidden fixed	voltage
TLE4983C-HT E6747	SP000374275	TLE4983CHTE6747HAMA1	PG-SSO-3	Camshaft	-	hidden fixed	voltage
TLE4984C-HT E6747	SP000374268	TLE4984CHTE6747HAMA1	PG-SSO-3	Camshaft	-	hidden fixed	voltage
TLE5027C-I E6747	SP000481606	TLE5027CIE6747HAMA1	PG-SSO-3	Transmission Crankshaft	yes	hidden adaptive	voltage
TLE5027C-N E6747	SP000317780	TLE5027CNE6747HAMA1	PG-SSO-3	Transmission Crankshaft	yes	hidden adaptive	voltage

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description			
				Frequency Band	Modulation Type	Transmit Power (at 3V)	Operating Temperature Range
				MHz		dBm	°C

Wireless Control**Transceiver (single channel)**

TDA5250	SP000012956	TDA5250XUMA1	PG-TSSOP-38	868	ASK/FSK	9.0	-40 ... +85
TDA5251	SP000014554	TDA5251XUMA1	PG-TSSOP-38	315	ASK/FSK	9.0	-40 ... +85
TDA5252	SP000057332	TDA5252XUMA1	PG-TSSOP-38	915	ASK/FSK	9.0	-40 ... +85
TDA5255	SP000014555	TDA5255XUMA1	PG-TSSOP-38	434	ASK/FSK	9.0	-40 ... +85
TDA7255V	SP000698114	TDA7255VXUMA1	PG-VQFN-40	434	ASK/FSK	9.0	-40 ... +85

SmartLEWIS™ TRX (multi channel) Transceiver with Digital Baseband Processing

TDA5340	SP000803722	TDA5340XUMA1	PG-TSSOP-28	315/434/ 470/868/ 915/959	ASK/FSK/ GSFK	14.0	-40 ... +110
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SMD = Surface Mounted Device

Summary of Types

Type		Ordering Code	Orderable Part Number	Page	Type		Ordering Code	Orderable Part Number	Page
BCR133S	10k	SP000755082	BCR133SH6433XTMA1	192	BCR512	3k	SP000010844	BCR512E6327HTSA1	193
BCR133S	3k	SP000755050	BCR133SH6327XTSA1	192	BCR521	3k	SP000010845	BCR521E6327HTSA1	193
BCR133W	3k	SP000756246	BCR133WH6327XTSA1	191	BCR523	10k	SP000010852	BCR523E6433HTMA1	193
BCR135	10k	SP000010767	BCR135E6433HTMA1	191	BCR523	3k	SP000010851	BCR523E6327HTSA1	193
BCR135	3k	SP000010765	BCR135E6327HTSA1	191	BCR523U	10k	SP000662374	BCR523UE6433HTMA1	193
BCR135S	3k	SP000756248	BCR135SH6327XTSA1	192	BCR523U	3k	SP000013381	BCR523UE6327HTSA1	193
BCR135W	3k	SP000756252	BCR135WH6327XTSA1	191	BCR533	3k	SP000010853	BCR533E6327HTSA1	193
BCR141	10k	SP000010771	BCR141E6433HTMA1	191	BCR553	3k	SP000010854	BCR553E6327HTSA1	193
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BCR141S	3k	SP000756256	BCR141SH6327XTSA1	192	BCR555	3k	SP000010855	BCR555E6327HTSA1	193
BCR141W	3k	SP000756258	BCR141WH6327XTSA1	191	BCR562	3k	SP000010859	BCR562E6327HTSA1	193
BCR142	3k	SP000010775	BCR142E6327HTSA1	191	BCR573	10k	SP000010860	BCR573E6433HTMA1	193
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BCR146	3k	SP000010777	BCR146E6327HTSA1	191	BCR583	3k	SP000012278	BCR583E6327HTSA1	193
BCR148	10k	SP000426390	BCR148E6433HTMA1	191	BCV26	3k	SP000010874	BCV26E6327HTSA1	199
BCR148	3k	SP000010780	BCR148E6327HTSA1	191	BCV27	3k	SP000010865	BCV27E6327HTSA1	199
BCR148S	10k	SP000756264	BCR148SH6433XTMA1	192	BCV28	1k	SP000010879	BCV28E6327HTSA1	199
BCR148S	3k	SP000756262	BCR148SH6327XTSA1	192	BCV46	3k	SP000010873	BCV46E6327HTSA1	199
BCR148W	3k	SP000756268	BCR148WH6327XTSA1	191	BCV47	10k	SP000010864	BCV47E6433HTMA1	199
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BCR158W	3k	SP000750762	BCR158WH6327XTSA1	191	BCV48	1k	SP000010880	BCV48E6327HTSA1	199
BCR162	3k	SP000010785	BCR162E6327HTSA1	191	BCV49	1k	SP000010882	BCV49E6327HTSA1	199
BCR166	10k	SP000010791	BCR166E6433HTMA1	191	BCV61B	10k	SP000010888	BCV61BE6433HTMA1	198
BCR166	3k	SP000010788	BCR166E6327HTSA1	191	BCV61B	3k	SP000010886	BCV61BE6327HTSA1	198
BCR166W	3k	SP000750764	BCR166WH6327XTSA1	191	BCV61C	3k	SP000010887	BCV61CE6327HTSA1	198
BCR169	3k	SP000010793	BCR169E6327HTSA1	191	BCV62A	3k	SP000010889	BCV62AE6327HTSA1	198
BCR169S	3k	SP000756842	BCR169SH6327XTSA1	192	BCV62B	10k	SP000010893	BCV62BE6433HTMA1	198
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BCR183	10k	SP000010796	BCR183E6433HTMA1	191	BCV62C	3k	SP000010891	BCV62CE6327HTSA1	198
BCR183	3k	SP000010794	BCR183E6327HTSA1	191	BCW60B	3k	SP000010551	BCW60BE6327HTSA1	195
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BCR183U	3k	SP000012552	BCR183UE6327HTSA1	192	BCW60FF	3k	SP000010554	BCW60FFE6327HTSA1	198
BCR183W	3k	SP000757002	BCR183WH6327XTSA1	191	BCW61A	3k	SP000010621	BCW61AE6327HTSA1	195
BCR185	10k	SP000010807	BCR185E6433HTMA1	191	BCW61B	3k	SP000010629	BCW61BE6327HTSA1	195
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BCR191	3k	SP000010810	BCR191E6327HTSA1	191	BCW66KG	3k	SP000271904	BCW66KGE6327HTSA1	196
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BCR192	3k	SP000010812	BCR192E6327HTSA1	192	BCW66KH	3k	SP000271906	BCW66KHE6327HTSA1	196
BCR192W	3k	SP000757898	BCR192WH6327XTSA1	192	BCW67B	3k	SP000015035	BCW67BE6327HTSA1	196
BCR196	3k	SP000014762	BCR196E6327HTSA1	192	BCW67C	3k	SP000015037	BCW67CE6327HTSA1	196
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BCR198	3k	SP000010817	BCR198E6327HTSA1	192	BCW68H	3k	SP000015040	BCW68HE6327HTSA1	196
BCR198S	3k	SP000757904	BCR198SH6327XTSA1	192	BCX41	10k	SP000010896	BCX41E6433HTMA1	199
BCR198W	3k	SP000757912	BCR198WH6327XTSA1	192	BCX41	3k	SP000010894	BCX41E6327HTSA1	199
BCR205W	3k	SP000866560	BCR205WH6327XTSA1	205	BCX42	10k	SP000010902	BCX42E6433HTMA1	199
BCR22PN	10k	SP000757920	BCR22PNH6433XTMA1	192	BCX42	3k	SP000010900	BCX42E6327HTSA1	199
BCR22PN	3k	SP000757916	BCR22PNH6327XTSA1	192	BCX51-16	1k	SP000014827	BCX5116E6327HTSA1	197
BCR320U	3k	SP000665920	BCR320UE6327HTSA1	205	BCX51-16	4k	SP000913728	BCX5116E6433HTMA1	197
BCR321U	3k	SP000665918	BCR321UE6327HTSA1	205	BCX51	1k	SP000014826	BCX51E6327HTSA1	197
BCR35PN	10k	SP000757928	BCR35PNH6433XTMA1	192	BCX52-16	1k	SP000014830	BCX5216E6327HTSA1	197
BCR35PN	3k	SP000757922	BCR35PNH6327XTSA1	192	BCX52-16	4k	SP000463248	BCX5216E6433HTMA1	197
BCR400W	3k	SP000745168	BCR400WH6327XTSA1	173	BCX52	1k	SP000014828	BCX52E6327HTSA1	197
BCR401R	10k	SP000839202	BCR401RE6433HTMA1	205	BCX53-10	1k	SP000010908	BCX5310E6327HTSA1	197
BCR401R	3k	SP000013678	BCR401RE6327HTSA1	205	BCX53-16	1k	SP000010907	BCX5316E6327HTSA1	197
BCR401U	3k	SP000311546	BCR401UE6327HTSA1	205	BCX53-16	4k	SP000010909	BCX5316E6433HTMA1	197
BCR401W	3k	SP000745174	BCR401WH6327XTSA1	205	BCX53	1k	SP000010906	BCX53E6327HTSA1	197
BCR402R	10k	SP000839204	BCR402RE6433HTMA1	205	BCX54-16	1k	SP000010918	BCX5416E6327HTSA1	197
BCR402R	3k	SP000013057	BCR402RE6327HTSA1	205	BCX55-16	1k	SP000010920	BCX5516E6327HTSA1	197
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BCR402W	3k	SP000745922	BCR402WH6327XTSA1	205	BCX55	1k	SP000010916	BCX55E6327HTSA1	197
BCR405U	3k	SP000013481	BCR405UE6327HTSA1	205	BCX56-10	1k	SP000010915	BCX5610E6327HTSA1	197
BCR410W	3k	SP000745924	BCR410WH6327XTSA1	173	BCX56-16	1k	SP000010913	BCX5616E6327HTSA1	197
BCR420U	3k	SP000665924	BCR420UE6327HTSA1	205	BCX56-16	4k	SP000017942	BCX5616E6433HTMA1	197
BCR421U	3k	SP000665922	BCR421UE6327HTSA1	205	BCX56	1k	SP000010914	BCX56E6327HTSA1	197
BCR450	3k	SP000394437	BCR450E6327HTSA1	205	BCX68-10	1k	SP000010924	BCX6810E6327HTSA1	197
BCR48PN	10k	SP000757932	BCR48PNH6433XTMA1	192	BCX68-16	1k	SP000010925	BCX6816E6327HTSA1	197
BCR48PN	3k	SP000757930	BCR48PNH6327XTSA1	192	BCX68-25	1k	SP000010926	BCX6825E6327HTSA1	197
BCR503	3k	SP000010839	BCR503E6327HTSA1	193	BCX69-10	1k	SP000010928	BCX6910E6327HTSA1	197
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BCX70H	10k	SP000010578	BCX70HE6433HTMA1	195	BFP640F	3k	SP000750404	BFP640FH6327XTSA1	172
BCX70H	3k	SP000010550	BCX70HE6327HTSA1	195	BFP640FESD	3k	SP000890034	BFP640FESDH6327XTSA1	172
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BCX70J	3k	SP000010556	BCX70JE6327HTSA1	195	BFP650F	3k	SP000750408	BFP650FH6327XTSA1	173
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BCX71H	3k	SP000010631	BCX71HE6327HTSA1	195	BFP720F	3k	SP000750412	BFP720FH6327XTSA1	172
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BCX71K	3k	SP000010632	BCX71KE6327HTSA1	195	BFP740ESD	3k	SP000785486	BFP740ESDH6327XTSA1	172
BDP947	1k	SP000010931	BDP947E6327HTSA1	197	BFP740F	3k	SP000750416	BFP740FH6327XTSA1	173
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BDP949	1k	SP000010932	BDP949E6327HTSA1	197	BFP840ESD	3k	SP000943010	BFP840ESDH6327XTSA1	172
BDP950	1k	SP000010939	BDP950E6327HTSA1	197	BFP840FESD	3k	SP000977846	BFP840FESDH6327XTSA1	172
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BF1005	3k	SP000010946	BF1005E6327HTSA1	182	BFR643F	3k	SP001062606	BFR643FH6327XTSA1	172
BF1005S	3k	SP000010949	BF1005SE6327HTSA1	182	BFQ19S	1k	SP000011042	BFQ19SE6327HTSA1	173
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BF1009SR	3k	SP000010956	BF1009SRE6327HTSA1	182	BFR181	3k	SP000011047	BFR181E6327HTSA1	171
BF2030	3k	SP000012219	BF2030E6814HTSA1	182	BFR181W	3k	SP000750418	BFR181WH6327XTSA1	171
BF2030W	3k	SP000752012	BF2030WH6814XTSA1	182	BFR182	3k	SP000011051	BFR182E6327HTSA1	171
BF2040	3k	SP000012215	BF2040E6814HTSA1	182	BFR182W	3k	SP000750420	BFR182WH6327XTSA1	171
BF2040R	3k	SP000012216	BF2040RE6814HTSA1	182	BFR183	3k	SP000011054	BFR183E6327HTSA1	171
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BF5030W	3k	SP000753488	BF5030WH6327XTSA1	182	BFR193F	3k	SP000750424	BFR193FH6327XTSA1	173
BF517	3k	SP000010958	BF517E6327HTSA1	171	BFR193L3	3k	SP000013557	BFR193L3E6327XTMA1	173
BF771	3k	SP000010967	BF771E6327HTSA1	173	BFR193W	3k	SP000734404	BFR193WH6327XTSA1	173
BF799	3k	SP000010973	BF799E6327HTSA1	173	BFR340F	3k	SP000750426	BFR340FH6327XTSA1	171
BF799W	3k	SP000734406	BF799WH6327XTSA1	173	BFR340L3	15k	SP000013558	BFR340L3E6327XTMA1	171
BF998	3k	SP000010978	BF998E6327HTSA1	182	BFR35AP	3k	SP000011060	BFR35APE6327HTSA1	171
BF998R	3k	SP000010979	BF998RE6327HTSA1	182	BFR360F	3k	SP000750428	BFR360FH6327XTSA1	171
BF999	10k	SP000426300	BF999E6433HTMA1	182	BFR360F	3k	SP000750442	BFR360FH6765XTSA1	171
BF999	3k	SP000010985	BF999E6327HTSA1	182	BFR360L3	15k	SP000013561	BFR360L3E6765XTMA1	171
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BFN19	1k	SP000010998	BFN19E6327HTSA1	199	BFR380L3	15k	SP000013562	BFR380L3E6327XTMA1	173
BFN24	3k	SP000014784	BFN24E6327HTSA1	199	BFR460L3	15k	SP000014238	BFR460L3E6327XTMA1	171
BFN26	3k	SP000014785	BFN26E6327HTSA1	199	BFR720L3RH	3k	SP000463888	BFR720L3RHE6327XTSA1	172
BFN27	3k	SP000014782	BFN27E6327HTSA1	199	BFR740L3RH	15k	SP000252393	BFR740L3RHE6327XTSA1	172
BFN38	1k	SP000011006	BFN38E6327HTSA1	199	BFR750L3RH	15k	SP000252588	BFR750L3RHE6327XTSA1	172
BFN39	1k	SP000014781	BFN39E6327HTSA1	199	BFR840L3RHESD	15k	SP000978848	BFR840L3RHE6327XTSA1	172
BFP181	3k	SP000011013	BFP181E7764HTSA1	171	BFR92P	3k	SP000011062	BFR92PE6327HTSA1	171
BFP182R	3k	SP000011016	BFP182RE7764HTSA1	171	BFR92W	3k	SP000750446	BFR92WH6327XTSA1	171
BFP182W	3k	SP000745176	BFP182WH6327XTSA1	171	BFR93A	3k	SP000011066	BFR93AE6327HTSA1	173
BFP183	3k	SP000011018	BFP183E7764HTSA1	171	BFR93AW	3k	SP000734402	BFR93AWH6327XTSA1	173
BFP183W	3k	SP000745244	BFP183WH6327XTSA1	171	BFS17P	3k	SP000011073	BFS17PE6327HTSA1	171
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BFP196	3k	SP000011027	BFP196E6327HTSA1	173	BFS481	3k	SP000750462	BFS481H6327XTSA1	171
BFP196W	3k	SP000745250	BFP196WH6327XTSA1	173	BFS483	3k	SP000750464	BFS483H6327XTSA1	171
BFP405	3k	SP000745254	BFP405H6327XTSA1	171	BG3123	3k	SP000753490	BG3123H6327XTSA1	182
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BFP410	3k	SP000762244	BFP410H6327XTSA1	171	BG3130R	3k	SP000753496	BG3130RH6327XTSA1	182
BFP420	10k	SP000745262	BFP420H6433XTMA1	171	BG3430R	3k	SP000753498	BG3430RH6327XTSA1	182
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BFP420	3k	SP000745264	BFP420H6740XTSA1	171	BG5412K	3k	SP000753502	BG5412KH6327XTSA1	182
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BFP450	10k	SP000745272	BFP450H6433XTMA1	173	BGA416	3k	SP000013607	BGA416E6327HTSA1	175
BFP450	3k	SP000745270	BFP450H6327XTSA1	173	BGA420	3k	SP000753504	BGA420H6327XTSA1	175
BFP460	3k	SP000745276	BFP460H6327XTSA1	171	BGA427	3k	SP000753506	BGA427H6327XTSA1	175
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BFP520F	3k	SP000745282	BFP520FH6327XTSA1	171	BGA461	7.5k	SP000463628	BGA461E6327XTSA1	175
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BFP540ESD	3k	SP000745298	BFP540ESDH6327XTSA1	171	BGA614	3k	SP000753512	BGA614H6327XTSA1	175
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