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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	XC800
Core Size	8-Bit
Speed	27MHz
Connectivity	CANbus, SPI, SSI, UART/USART
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Number of I/O	40
Program Memory Size	64KB (64K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	3.25K x 8
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V
Data Converters	A/D 8x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	64-LQFP
Supplier Device Package	PG-LQFP-64
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/xc878cm16ffa5vacfxuma1

Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 8-bit				
XC800 Family XC888 Series				
SAF-XC888-6FFI 5V AC-Step	SP000607062	XC8886FFI5VACFXUMA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, industry quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, -40°C to 85°C, tape & reel
SAF-XC888-8FFI 5V AC-Step	SP000646588	XC8888FFI5VACFXUMA1	PG-TQFP-64-8	as SAF-XC888-6FFI, 32-Kbyte flash memory, tape & reel
SAK-XC888C-8FFA 5V AC-Step	SP000606958	XC888C8FFA5VACKXUMA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, -40°C to 125°C, tape & reel
XC888CLM Series				
SAK-XC888CLM-8FFA 5V AC-Step	SP000606756	XC888CLM8FFA5VACKXUMA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, with LIN BSL support and MDU module, -40°C to 125°C, tape & reel
■ SAF-XC888CLM-8FFI 5V AC-Step	SP000253397	XC888CLM8FFI5VACFXUMA1	PG-TQFP-64-8	as SAK-XC888CLM-8FFA, industry quality level, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 16-bit				
XC166 Family				
XC161CJ/CS Series				
SAF-XC161CJ-16F40F BB-Step	SP000280516	XC161CJ16F40FBBFXQMA1	PG-TQFP-144-19	128-Kbyte on-chip program memory (flash memory), 8-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 12-channel 10-bit A/D converter, 40-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XC161CJ-16F40F BB-Step	SP000224537	XC161CJ16F40FBBFXUMA1	PG-TQFP-144-19	as SAF-XC161CJ-16F20F, 40-MHz clock frequency, tape & reel
SAK-XC161CJ-16F40F BB-Step	SP000224540	XC161CJ16F40FBBKXUMA1	PG-TQFP-144-19	as SAF-XC161CJ-16F40F, -40°C to 125°C, tape & reel
SAF-XC161CS-32F40F BB-A-Step	SP000224542	XC161CS32F40FBBAFXUMA1	PG-TQFP-144-19	256-Kbyte on-chip program memory (flash memory), 12-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 40-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-XC161CS-32F40F BB-A-Step	SP000224544	XC161CS32F40FBBAXUMA1	PG-TQFP-144-19	as SAF-XC161CS-32F40F, -40°C to 125°C, tape & reel
XC164CM Series				
SAK-XC164CM-8F20F AA-Step	SP000065643	XC164CM8F20FAAKXUMA1	PG-TQFP-64-8	64-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, TwinCAN module, one Full-CAN nodes, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 125°C, tape & reel
SAF-XC164CM-8F40F AA-Step	SP000203865	XC164CM8F40FAAFXQMA1	PG-TQFP-64-8	as SAK-XC164CM-8F20F, 40-MHz clock frequency, -40°C to 85°C, tray
SAF-XC164CM-8F40F AA-Step	SP000065635	XC164CM8F40FAAFXUMA1	PG-TQFP-64-8	as SAF-XC164CM-8F40F, tape & reel
SAK-XC164CM-8F40F AA-Step	SP000203869	XC164CM8F40FAAKXQMA1	PG-TQFP-64-8	as SAF-XC164CM-8F40F, -40°C to 125°C, tray
SAK-XC164CM-8F40F AA-Step	SP000065644	XC164CM8F40FAAKXUMA1	PG-TQFP-64-8	as SAK-XC164CM-8F40F, tape & reel
SAK-XC164CM-16F20F BA-Step	SP000245661	XC164CM16F20FBAKXUMA1	PG-LQFP-64-4	as SAK-XC164CM-8F20F, 128-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
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Microcontrollers, 16-bit**C166 Family
C161PI Series**

SAB-C161PI-LF CA-Step	SP000014344	C161PILFCABXUMA1	PG-TQFP-100-1	ROMless, 3-Kbyte RAM, 8-bit ADC, real time clock, general purpose timer units, I ² C Bus, USART, watchdog timer, idle and power down mode, operating range 5 V, 10-bit ADC, 20-MHz clock frequency, tape & reel
SAF-C161PI-LF CA-Step	SP000014359	C161PILFCAFXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF, -40°C to 85°C, tape & reel
SAB-C161PI-LF3V CA-Step	SP000014360	C161PILF3VCABXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF, operating range 3 V, tape & reel
SAF-C161PI-LF3V CA-Step	SP000014361	C161PILF3VCAFXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF 3 V, -40°C to 85°C, tape & reel
SAB-C161PI-L25F CA-Step	SP000014362	C161PIL25FCABXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF, 25-MHz clock frequency, tape & reel
SAF-C161PI-L25F CA-Step	SP000014363	C161PIL25FCAFXUMA1	PG-TQFP-100-1	as SAB-C161PI-L25F, -40°C to 85°C, tape & reel
SAB-C161PI-LM CA-Step	SP000014345	C161PILMCABXUMA1	PG-MQFP-100-2	as SAB-C161PI-LF, MQFP package, tape & reel
SAF-C161PI-LM CA-Step	SP000014364	C161PILMCAFXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM, -40°C to 85°C, tape & reel
SAB-C161PI-LM3V CA-Step	SP000014365	C161PILFCABXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM, operating range 3 V, tape & reel
SAF-C161PI-LM3V CA-Step	SP000014366	C161PILM3VCAFXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM 3V, -40°C to 85°C, tape & reel
SAB-C161PI-L25M CA-Step	SP000014367	C161PIL25MCABXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM, 25-MHz clock frequency, tape & reel
SAF-C161PI-L25M CA-Step	SP000014368	C161PIL25MCAFXUMA1	PG-MQFP-100-2	as SAB-C161PI-L25M, -40°C to 85°C, tape & reel

C161S Series

SAB-C161S-L25M AA-Step	SP000014739	C161SL25MAABXUMA1	PG-MQFP-80-7	as SAB-C161PI-LM, low cost version, 25-MHz clock frequency, tape & reel
SAF-C161S-L25M AA-Step	SP000014947	C161SL25MAAFXUMA1	PG-MQFP-80-7	as SAB-C161S-L25M, -40°C to 85°C, tape & reel
SAB-C161S-LM3V AA-Step	SP000014946	C161SLM3VAABXUMA1	PG-MQFP-80-7	as SAB-C161PI-LM, low cost version, operating range 3 V, tape & reel
SAF-C161S-LM3V AA-Step	SP000014948	C161SLM3VAAFXUMA1	PG-MQFP-80-7	as SAB-C161PI-LM, -40°C to 85°C, tape & reel

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Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 16-bit				
XE166 Family				
XE162 Series				
▼SAK-XE162FL-12F66L AA-Step	SP000859312	XE162FL12F66LAAKZZA1	PG-LQFP-64-22	Real time signal controller/ Econo Line 96-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/ compare unit (CAPCOM2), two capture/compare units (CCU60), 19-channel 12-bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tray
▼SAF-XE162FL-12F80L AA-Step	SP000859314	XE162FL12F80LAAFXQSA1	PG-LQFP-64-22	as SAK-XE162FL-12F66L, 80-MHz clock frequency, -40°C to 85°C, tray
▼SAF-XE162FL-20F80L AA-Step	SP000859306	XE162FL20F80LAAFZZA1	PG-LQFP-64-22	as SAF-XE162FL-12F80L, 160-Kbyte on-chip program memory (flash memory), tray
▼SAK-XE162FL-20F66L AA-Step	SP000859304	XE162FL20F66LAAKXUMA1	PG-LQFP-64-22	as SAF-XE162FL-12F80L, 160-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), 66-MHz clock frequency, -40°C to 125°C, tape & reel
SAF-XE162FM-24F80L AA-Step	SP000397634	XE162FM24F80LAAFXUMA1	PG-LQFP-64-13	Real time signal controller/Base Line 192-Kbyte on-chip program memory (flash memory), 10-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), one 16-channel purpose capture/ compare unit (CAPCOM2), programmable watchdog timer, oscillator watchdog, capture/ compare unit (CCU60), 7 + 2-channel 10-bit A/D converter, six serial interface, two Full-CAN nodes, 80-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XE162FM-72F80L AA-Step	SP000397630	XE162FM72F80LAAFXUMA1	PG-LQFP-64-13	as SAFXE162FM-24F80L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
▼SAF-XE162FN-16F80L AA-Step	SP000518060	XE162FN16F80LAAFZZA1	PG-LQFP-64-13	as SAF-XE162FM-24F80L, Value Line 128-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
▼SAF-XE162FN-24F80L AA-Step	SP000518062	XE162FN24F80LAAFZZA1	PG-LQFP-64-13	as SAF-XE162FN-16F80L, 192-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 16-bit				
XE166 Family				
XE164G Series				
SAF-XE164G-24F66L AC-Step	SP000363797	XE164G24F66LACFXQMA1	PG-LQFP-100-3	Real time signal controller High performance CPU with five-stage pipeline, 192-Kbyte on-chip program memory (flash memory), 10-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), two capture/compare units (CCU6), 6+ 5-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE164G-24F66L AC-Step	SP000363795	XE164G24F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, tape & reel
SAF-XE164G-48F66L AC-Step	SP000363787	XE164G48F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164G-96F66L AC-Step	SP000363764	XE164G96F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164GM-24F80L AA-Step	SP000397568	XE164GM24F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164G-24F66, Base Line memory protection unit (MPU), 80-MHz clock frequency, tape & reel
SAF-XE164GM-72F80L AA-Step	SP000397564	XE164GM72F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164GM-24F80L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAK-XE164GM-72F80L AA-Step	SP000628618	XE164GM72F80LAAKUMA1	PG-LQFP-100-8	as SAF-XE164GM-72F80L, -40°C to 125°C, tape & reel

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**Mobile Series, Gate Charge @ 4.5 V
30 V**

BSC014N03MS G	SP000394681	BSC014N03MSGATMA1	SuperSO8	30	1.4	1.0 ... 2.0	100
BSC016N03MS G	SP000311502	BSC016N03MSGATMA1	SuperSO8	30	1.6	1.0 ... 2.0	100
BSC020N03MS G	SP000311503	BSC020N03MSGATMA1	SuperSO8	30	2.0	1.0 ... 2.0	100
BSC025N03MS G	SP000311505	BSC025N03MSGATMA1	SuperSO8	30	2.5	1.0 ... 2.0	100
BSC030N03MS G	SP000311506	BSC030N03MSGATMA1	SuperSO8	30	3.0	1.0 ... 2.0	100
BSC037N03MSC G	SP000527434	BSC037N03MSCGATMA1	SuperSO8	30	3.7	1.0 ... 2.2	100
BSC042N03MS G	SP000311512	BSC042N03MSGATMA1	SuperSO8	30	4.2	1.0 ... 2.0	93
BSC043N03MSC G	SP000509600	BSC043N03MSCGATMA1	SuperSO8	30	4.3	1.0 ... 2.2	87
BSC049N03MSC G	SP000509598	BSC049N03MSCGATMA1	SuperSO8	30	4.9	1.0 ... 2.2	77
BSC050N03MS G	SP000311507	BSC050N03MSGATMA1	SuperSO8	30	5.0	1.0 ... 2.0	80
BSC057N03MS G	SP000311513	BSC057N03MSGATMA1	SuperSO8	30	5.7	1.0 ... 2.0	71
BSC080N03MS G	SP000311514	BSC080N03MSGATMA1	SuperSO8	30	8.0	1.0 ... 2.0	53
BSC090N03MS G	SP000313120	BSC090N03MSGATMA1	SuperSO8	30	9.0	1.0 ... 2.0	48
BSC091N03MSC G	SP000527416	BSC091N03MSCGATMA1	SuperSO8	30	9.1	1.0 ... 2.2	44
BSC100N03MS G	SP000311515	BSC100N03MSGATMA1	SuperSO8	30	10	1.0 ... 2.0	44
BSC120N03MS G	SP000311516	BSC120N03MSGATMA1	SuperSO8	30	12	1.0 ... 2.0	39
BSO033N03MS G	SP000446072	BSO033N03MSGXUMA1	SO-8	30	3.3	1.0 ... 2.0	17
BSO038N03MSC G	SP000527604	BSO038N03MSCGXUMA1	SO-8	30	3.8	1.0 ... 2.0	21
BSO040N03MS G	SP000446070	BSO040N03MSGXUMA1	SO-8	30	4.0	1.0 ... 2.0	16
BSO051N03MS G	SP000446068	BSO051N03MSGXUMA1	SO-8	30	5.1	1.0 ... 2.0	14
BSO065N03MS G	SP000446066	BSO065N03MSGXUMA1	SO-8	30	6.5	1.0 ... 2.0	13
BSO083N03MS G	SP000446064	BSO083N03MSGXUMA1	SO-8	30	8.3	1.0 ... 2.0	11
BSO108N03MSC G	SP000527616	BSO108N03MSCGXUMA1	SO-8	30	10.8	1.0 ... 2.0	12.2
BSO110N03MS G	SP000446062	BSO110N03MSGXUMA1	SO-8	30	11	1.0 ... 2.0	12.1
BSO130N03MS G	SP000446050	BSO130N03MSGXUMA1	SO-8	30	13	1.0 ... 2.0	9.0
BSO150N03MD G	SP000447476	BSO150N03MDGXUMA1	SO-8 (dual)	30	15	1.2 ... 2.0	9.3
BSO220N03MD G	SP000447478	BSO220N03MDGXUMA1	SO-8 (dual)	30	22	1.0 ... 2.1	7.0
BSO220N03MS G	SP000446060	BSO220N03MSGXUMA1	SO-8	30	22	1.0 ... 2.1	8.6
BSZ035N03MS G	SP000311511	BSZ035N03MSGATMA1	S3O8	30	3.5	1.0 ... 2.0	40
BSZ050N03MS G	SP000311518	BSZ050N03MSGATMA1	S3O8	30	5.0	1.0 ... 2.0	40
BSZ058N03MS G	SP000311508	BSZ058N03MSGATMA1	S3O8	30	5.8	1.0 ... 2.0	40
BSZ088N03MS G	SP000311509	BSZ088N03MSGATMA1	S3O8	30	8.8	1.0 ... 2.0	40
BSZ100N03MS G	SP000311510	BSZ100N03MSGATMA1	S3O8	30	10	1.0 ... 2.0	40
BSZ130N03MS G	SP000313122	BSZ130N03MSGATMA1	S3O8	30	13	1.0 ... 2.0	35

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**60 V**

▼ BSB028N06NN3 G	SP000605956	BSB028N06NN3GXUMA1	CanPAK™ M-size	60	2.8	2.0 ... 4.0	90
▼ BSF077N06NT3 G	SP000605968	BSF077N06NT3GXUMA1	CanPAK™ S-size	60	7.7	2.0 ... 4.0	56
BSC028N06LS3 G	SP000453652	BSC028N06LS3GATMA1	SuperSO8	60	2.8	1.2 ... 2.2	100
▼ BSC028N06NS G	SP000917416	BSC028N06NSATMA1	SuperSO8	60	2.8	2.8	100
BSC031N06NS3 G	SP000451482	BSC031N06NS3GATMA1	SuperSO8	60	3.1	2.0 ... 4.0	100
BSC067N06LS3 G	SP000451084	BSC067N06LS3GATMA1	SuperSO8	60	6.7	1.2 ... 2.2	50
BSC076N06NS3 G	SP000453656	BSC076N06NS3GATMA1	SuperSO8	60	7.6	2.0 ... 4.0	50
BSC100N06LS3 G	SP000453664	BSC080P03LPGAUMA1	SuperSO8	60	10	1.2 ... 2.2	50
BSC110N06NS3 G	SP000453668	BSC110N06NS3GATMA1	SuperSO8	60	11	2.0 ... 4.0	50
▼ BSZ042N06NS G	SP000917418	BSZ042N06NSATMA1	S3O8	60	4.2	2.8	40
BSZ067N06LS3 G	SP000451080	BSZ067N06LS3GATMA1	S3O8	60	6.7	1.2 ... 2.2	20
BSZ076N06LS3 G	SP000454420	BSZ076N06NS3GATMA1	S3O8	60	7.6	2.0 ... 4.0	20
BSZ100N06LS3 G	SP000453672	BSZ100N06LS3GATMA1	S3O8	60	10	1.7 ... 2.2	20
BSZ110N06NS3 G	SP000453676	BSZ110N06NS3GATMA1	S3O8	60	11	2.0 ... 4.0	20
BSL806N	SP000464844	BSL806NL6327HTSA1	TSOP6 dual	60	57	0.3 ... 0.75	2.3
IPA032N06N3 G	SP000453608	IPA032N06N3GXKSA1	TO-220 FullPAK	60	3.2	2.0 ... 4.0	84
IPA057N06N3 G	SP000457582	IPA057N06N3GXKSA1	TO-220 FullPAK	60	5.7	2.0 ... 4.0	60
IPA093N06N3 G	SP000451088	IPA093N06N3GXKSA1	TO-220 FullPAK	60	9.3	2.0 ... 4.0	43
IPB016N06L3 G	SP000453040	IPB016N06L3GATMA1	D ² PAK 7pin	60	1.6	1.2 ... 2.2	180
IPB017N06N3 G	SP000434404	IPB017N06N3GATMA1	D ² PAK 7pin	60	1.7	2.0 ... 4.0	180
IPB023N06N3 G	SP000453048	IPB023N06N3GATMA1	D ² PAK 7pin	60	2.3	2.0 ... 4.0	140
IPB034N06L3 G	SP000398062	IPB034N06L3GATMA1	D ² PAK 7pin	60	3.4	1.2 ... 2.2	90
IPB034N06N3 G	SP000397990	IPB034N06N3GATMA1	D ² PAK 7pin	60	3.4	2.0 ... 4.0	100
IPB019N06L3 G	SP000453020	IPB019N06L3GATMA1	D ² PAK	60	1.9	1.2 ... 2.2	120
IPB021N06N3 G	SP000452248	IPB021N06N3GATMA1	D ² PAK	60	2.1	2.0 ... 4.0	120
IPB029N06N3 G	SP000453052	IPB029N06N3GATMA1	D ² PAK	60	2.9	2.0 ... 4.0	120
▼ IPB029N06N3 G	SP000939334	IPB029N06N3E8187GATMA1	D ² PAK	60	2.9	2.0 ... 4.0	120
IPB034N06L3 G	SP000398062	IPB034N06L3GATMA1	D ² PAK	60	3.4	1.2 ... 2.2	90
IPB037N06N3 G	SP000397986	IPB037N06N3GATMA1	D ² PAK	60	3.7	2.0 ... 4.0	90
IPB048N06L G	SP000204181	IPB048N06L3GATMA1	D ² PAK	60	4.4	1.2 ... 2.0	100
IPB049N06L3 G	SP000453056	IPB049N06L3GATMA1	D ² PAK	60	4.9	1.2 ... 2.2	80
IPB050N06N G	SP000204170	IPB050N06NGATMA1	D ² PAK	60	4.7	2.1 ... 4.0	100
IPB054N06N3 G	SP000446782	IPB054N06N3GATMA1	D ² PAK	60	5.4	2.1 ... 4.0	80
IPB081N06L3 G	SP000398076	IPB081N06L3GATMA1	D ² PAK	60	8.1	1.2 ... 2.2	50
IPB090N06N3 G	SP000398042	IPB090N06N3GATMA1	D ² PAK	60	9.0	2.1 ... 4.0	50
IPB230N06L3 G	SP000457584	IPB230N06L3GATMA1	D ² PAK	60	23	1.2 ... 2.2	30
IPB260N06N3 G	SP000453630	IPB260N06N3GATMA1	D ² PAK	60	26	2.0 ... 4.0	27
IPD031N06L3 G	SP000451076	IPD031N06L3GATMA1	DPAK	60	3.1	1.2 ... 2.2	100
IPD034N06N3 G	SP000451070	IPD034N06N3GATMA1	DPAK	60	3.4	2.0 ... 4.0	100
IPD035N06L3 G	SP000398066	IPD035N06L3GATMA1	DPAK	60	3.5	1.2 ... 2.2	90
IPD038N06N3 G	SP000397994	IPD038N06N3GATMA1	DPAK	60	3.8	2.0 ... 4.0	90
IPD048N06L3 G	SP000453334	IPD048N06L3GBTMA1	DPAK	60	4.8	1.2 ... 2.2	90
IPD053N06N3 G	SP000453318	IPD053N06N3GBTMA1	DPAK	60	5.3	2.0 ... 4.0	90
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
IPD144N06N G	SP000443738	IPD144N06NGBTMA1	DPAK	60	14.4	2.1 ... 4.0	200
IPD220N06L3 G	SP000453644	IPD220N06L3GBTMA1	DPAK	60	22	1.2 ... 2.2	30

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

120 V

BSC077N12NS3 G	SP000652750	BSC077N12NS3GATMA1	SuperSO8	120	7.7	2.0 ... 4.0	98
BSC190N12NS3 G	SP000652752	BSC190N12NS3GATMA1	SuperSO8	120	19	2.0 ... 4.0	44
BSC240N12NS3 G	SP000819812	BSC240N12NS3GATMA1	SuperSO8	120	24	2.0 ... 4.0	37
BSZ240N12NS3 G	SP000819814	BSZ240N12NS3GATMA1	S3O8	120	24	2.0 ... 4.0	37
IPB036N12N3 G	SP000675204	IPB036N12N3GATMA1	D ² PAK	120	3.6	2.0 ... 4.0	180
IPB038N12N3 G	SP000694160	IPB038N12N3GATMA1	D ² PAK	120	3.8	2.0 ... 4.0	120
IPB144N12N3 G	SP000694166	IPB144N12N3GATMA1	D ² PAK	120	14.4	2.0 ... 4.0	56
IPD110N12N3 G	SP000674466	IPD110N12N3GBUMA1	DPAK	120	11	2.0 ... 4.0	75
IPI041N12N3 G	SP000652748	IPI041N12N3GAKSA1	I ² PAK	120	4.1	2.0 ... 4.0	120
IPI076N12N3 G	SP000652738	IPI076N12N3GAKSA1	I ² PAK	120	7.6	2.0 ... 4.0	100
IPI147N12N3 G	SP000652744	IPI147N12N3GAKSA1	I ² PAK	120	14.7	2.0 ... 4.0	56
IPP041N12N3 G	SP000652746	IPP041N12N3GXKSA1	TO-220	120	4.1	2.0 ... 4.0	120
IPP048N12N3 G	SP000652734	IPP048N12N3GXKSA1	TO-220	120	4.8	2.0 ... 4.0	100
IPP076N12N3 G	SP000652736	IPP076N12N3GXKSA1	TO-220	120	7.6	2.0 ... 4.0	100
IPP114N12N3 G	SP000652740	IPP114N12N3GXKSA1	TO-220	120	11.4	2.0 ... 4.0	75
IPP147N12N3 G	SP000652742	IPP147N12N3GXKSA1	TO-220	120	14.7	2.0 ... 4.0	56
▼ IPS110N12N3 G	SP000674456		IPAK SL	120	11	2.0 ... 4.0	75

150 V

▼ BSB165N15NZ3 G	SP000617000	BSB165N15NZ3GXUMA1	CanPAK™ M-size	150	16.5	2.0 ... 4.0	45
▼ BSB280N15NZ3 G	SP000604534	BSB280N15NZ3GXUMA1	CanPAK™ M-size	150	28	2.0 ... 4.0	30
BSC190N15NS3 G	SP000416636	BSC190N15NS3GATMA1	SuperSO8	150	19	2.0 ... 4.0	50
BSC360N15NS3 G	SP000778134	BSC360N15NS3GATMA1	SuperSO8	150	36	2.0 ... 4.0	33
BSC520N15NS3 G	SP000521716	BSC520N15NS3GATMA1	SuperSO8	150	52	2.0 ... 4.0	21
BSZ520N15NS3 G	SP000607022	BSZ520N15NS3GATMA1	S3O8	150	52	2.0 ... 4.0	21
BSZ900N15NS3 G	SP000677866	BSZ900N15NS3GATMA1	S3O8	150	90	2.0 ... 4.0	13
IPA075N15N3 G	SP000607018	IPA075N15N3GXKSA1	TO-220 FullPAK	150	7.5	2.0 ... 4.0	41
IPA105N15N3 G	SP000677850	IPA105N15N3GXKSA1	TO-220 FullPAK	150	10.5	2.0 ... 4.0	37
IPB065N15N3 G	SP000521724	IPB065N15N3GATMA1	D ² PAK	150	6.5	2.0 ... 4.0	130
▼ IPB065N15N3 G	SP000939336	IPB065N15N3GE8187ATMA1	D ² PAK	150	6.5	2.0 ... 4.0	130
IPB072N15N3 G	SP000386664	IPB072N15N3GATMA1	D ² PAK	150	7.2	2.0 ... 4.0	100
▼ IPB072N15N3 G	SP000938816	IPB072N15N3GE8187ATMA1	D ² PAK	150	7.2	2.0 ... 4.0	100
IPB108N15N3 G	SP000677862	IPB108N15N3GATMA1	D ² PAK	150	10.8	2.0 ... 4.0	83
IPB200N15N3 G	SP000414740	IPB200N15N3GATMA1	D ² PAK	150	20	2.0 ... 4.0	50
IPB530N15N3 G	SP000521718	IPB530N15N3GATMA1	D ² PAK	150	53	2.0 ... 4.0	8.7
IPD200N15N3 G	SP000386665	IPD200N15N3GBTMA1	DPAK	150	20	2.0 ... 4.0	50
IPD530N15N3 G	SP000521720	IPD530N15N3GBTMA1	DPAK	150	53	2.0 ... 4.0	8.7
IPI075N15N3 G	SP000680676	IPI075N15N3GXKSA1	I ² PAK	150	7.5	2.0 ... 4.0	100
▼ IPI111N15N3 G	SP000680232		I ² PAK	150	11.1	2.0 ... 4.0	83
IPI200N15N3 G	SP000680722	IPI200N15N3GXKSA1	I ² PAK	150	20	2.0 ... 4.0	50
▼ IPI530N15N3 G	SP000807642		I ² PAK	150	53	2.0 ... 4.0	8.7
IPP075N15N3 G	SP000680832	IPP075N15N3GXKSA1	TO-220	150	7.5	2.0 ... 4.0	100
IPP111N15N3 G	SP000677860	IPP111N15N3GXKSA1	TO-220	150	11.1	2.0 ... 4.0	83
IPP200N15N3 G	SP000680884	IPP200N15N3GXKSA1	TO-220	150	20	2.0 ... 4.0	50
IPP530N15N3 G	SP000521722	IPP530N15N3GXKSA1	TO-220	150	53	2.0 ... 4.0	8.7

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

600 V

(cont'd)

SPA11N60C3	SP000216312	SPA11N60C3XKSA1	TO-220 FullPAK	600	380	2.1 ... 3.9	11
IPA60R385CP	SP000089316	IPA60R385CPXKSA1	TO-220 FullPAK	600	385	2.5 ... 3.5	9.0
SPA11N60CFD	SP000216317	SPA11N60CFDXKSA1	TO-220 FullPAK	600	440	3.0 ... 5.0	11
IPA60R520CP	SP000405856	IPA60R520CPXKSA1	TO-220 FullPAK	600	520	2.5 ... 3.5	6.8
IPA60R600CP	SP000405884	IPA60R600CPXKSA1	TO-220 FullPAK	600	600	2.5 ... 3.5	6.1
SPA07N60C3	SP000216303	SPA07N60C3XKSA1	TO-220 FullPAK	600	600	2.1 ... 3.9	7.3
SPA07N60CFD	SP000264431	SPA07N60CFDXKSA1	TO-220 FullPAK	600	700	3.0 ... 5.0	6.6
SPA06N60C3	SP000216301	SPA06N60C3XKSA1	TO-220 FullPAK	600	750	2.1 ... 3.9	6.2
SPA04N60C3	SP000216299	SPA04N60C3XKSA1	TO-220 FullPAK	600	950	2.1 ... 3.9	4.5
SPA03N60C3	SP000216296	SPA03N60C3XKSA1	TO-220 FullPAK	600	1400	2.1 ... 3.9	3.2
IPB60R099CP	SP000088490	IPB60R099CPATMA1	D ² PAK	600	99	2.5 ... 3.5	31
IPB60R125CP	SP000297368	IPB60R125CPATMA1	D ² PAK	600	125	2.5 ... 3.5	25
IPB60R165CP	SP000096439	IPB60R165CPATMA1	D ² PAK	600	165	2.5 ... 3.5	21
SPB20N60C3	SP000013520	SPB20N60C3ATMA1	D ² PAK	600	190	2.1 ... 3.9	20.7
IPB60R199CP	SP000223256	IPB60R199CPATMA1	D ² PAK	600	199	2.5 ... 3.5	16
IPB60R250CP	SP000358140	IPB60R250CPATMA1	D ² PAK	600	250	2.5 ... 3.5	12
IPB60R299CP	SP000301161	IPB60R299CPATMA1	D ² PAK	600	299	2.5 ... 3.5	11
SPB11N60C3	SP000013519	SPB11N60C3ATMA1	D ² PAK	600	380	2.1 ... 3.9	11
IPB60R385CP	SP000228365	IPB60R385CPATMA1	D ² PAK	600	385	2.5 ... 3.5	9.0
IPB60R520CP	SP000405868	IPB60R520CPATMA1	D ² PAK	600	520	2.5 ... 3.5	6.8
IPB60R600CP	SP000405892	IPB60R600CPATMA1	D ² PAK	600	600	2.5 ... 3.5	6.1
SPB07N60C3	SP000013518	SPB07N60C3ATMA1	D ² PAK	600	600	2.1 ... 3.9	7.3
SPB04N60C3	SP000013533	SPB04N60C3ATMA1	D ² PAK	600	950	2.1 ... 3.9	4.5
SPB03N60C3	SP000013517	SPB03N60C3ATMA1	D ² PAK	600	1400	2.1 ... 3.9	3.2
SPB02N60C3	SP000013516	SPB02N60C3ATMA1	D ² PAK	600	3000	2.1 ... 3.9	1.8
IPD60R385CP	SP000307381	IPD60R385CPBTMA1	DPAK	600	385	2.5 ... 3.5	9.0
IPD60R520CP	SP000405852	IPD60R520CPBTMA1	DPAK	600	520	2.5 ... 3.5	6.8
IPD60R600CP	SP000405878	IPD60R600CPBTMA1	DPAK	600	600	2.5 ... 3.5	6.1
SPD07N60C3	SP000313947	SPD07N60C3BTMA1	DPAK	600	600	2.1 ... 3.9	7.3
SPD06N60C3	SP000307394	SPD06N60C3BTMA1	DPAK	600	750	2.1 ... 3.9	6.2
SPD04N60C3	SP000313944	SPD04N60C3BTMA1	DPAK	600	950	2.1 ... 3.9	4.5
SPD03N60C3	SP000308772	SPD03N60C3BTMA1	DPAK	600	1400	2.1 ... 3.9	3.2
SPD02N60C3	SP000308771	SPD02N60C3BTMA1	DPAK	600	3000	2.1 ... 3.9	1.8
SPD01N60C3	SP000307382	SPD01N60C3BTMA1	DPAK	600	6000	2.1 ... 3.9	0.8
IPI60R099CP	SP000297356	IPI60R099CPXKSA1	I ² PAK	600	99	2.5 ... 3.5	31
IPI60R125CP	SP000297355	IPI60R125CPAKSA1	I ² PAK	600	125	2.5 ... 3.5	25
IPI60R165CP	SP000276736	IPI60R165CPAKSA1	I ² PAK	600	165	2.5 ... 3.5	21
SPI20N60C3	SP000014453	SPI20N60C3HKSA1	I ² PAK	600	190	2.1 ... 3.9	20.7
SPI20N60C3	SP000681006	SPI20N60C3XKSA1	I ² PAK	600	190	2.1 ... 3.9	20.7
IPI60R199CP	SP000103248	IPI60R199CPAKSA1	I ² PAK	600	199	2.5 ... 3.5	16
SPI20N60CFD	SP000229995	SPI20N60CFDHKSA1	I ² PAK	600	220	3.0 ... 5.0	20.7
SPI20N60CFD	SP000681008	SPI20N60CFDXKSA1	I ² PAK	600	220	3.0 ... 5.0	20.7

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**600 V**
(cont'd)

SPI15N60C3	SP000014528	SPI15N60C3HKSA1	I ² PAK	600	280	2.1 ... 3.9	15
SPI15N60C3	SP000680998	SPI15N60C3XKSA1	I ² PAK	600	280	2.1 ... 3.9	15
IPI60R299CP	SP000103249	IPI60R299CPXKSA1	I ² PAK	600	299	2.5 ... 3.5	11
SPI15N60CFD	SP000264433	SPI15N60CFDHKSA1	I ² PAK	600	330	3.0 ... 5.0	15
SPI15N60CFD	SP000681000	SPI15N60CFDXKSA1	I ² PAK	600	330	3.0 ... 5.0	15
SPI11N60C3	SP000013522	SPI11N60C3HKSA1	I ² PAK	600	380	2.1 ... 3.9	11
SPI11N60C3	SP000680986	SPI11N60C3XKSA1	I ² PAK	600	380	2.1 ... 3.9	11
IPI60R385CP	SP000103250	IPI60R385CPXKSA1	I ² PAK	600	385	2.5 ... 3.5	9.0
IPI60R520CP	SP000405872	IPI60R520CPAKSA1	I ² PAK	600	520	2.5 ... 3.5	6.8
IPI60R600CP	SP000405896	IPI60R600CPAKSA1	I ² PAK	600	600	2.5 ... 3.5	6.1
SPI11N60CFD	SP000229994	SPI11N60CFDHKSA1	I ² PAK	600	440	3.0 ... 5.0	11
SPI11N60CFD	SP000680990	SPI11N60CFDXKSA1	I ² PAK	600	440	3.0 ... 5.0	11
SPI07N60C3	SP000013521	SPI07N60C3HKSA1	I ² PAK	600	600	2.1 ... 3.9	7.3
SPI07N60C3	SP000680976	SPI07N60C3XKSA1	I ² PAK	600	600	2.1 ... 3.9	7.3
IPL60R199CP	SP000841892	IPL60R199CPAUMA1	ThinPAK 8x8	600	199	2.5 ... 3.5	16.4
IPL60R299CP	SP000841896	IPL60R299CPAUMA1	ThinPAK 8x8	600	299	2.5 ... 3.5	11.1
IPL60R385CP	SP000841898	IPL60R385CPAUMA1	ThinPAK 8x8	600	385	2.5 ... 3.5	9.0
BSP125	SP000089204	BSP125L6327HTSA1	SOT223	600	45000	1.3 ... 2.3	0.12
BSP125 L6433	SP000089211	BSP125L6433HTMA1	SOT223	600	45000	1.3 ... 2.3	0.12
IPP60R099CP	SP000057021	IPP60R099CPAKSA1	TO-220	600	99	2.5 ... 3.5	31
IPP60R125CP	SP000088488	IPP60R125CPAKSA1	TO-220	600	125	2.5 ... 3.5	25
SPP24N60C3	SP000014690	SPP24N60C3HKSA1	TO-220	600	160	2.1 ... 3.9	24.3
SPP24N60C3	SP000681068	SPP24N60C3XKSA1	TO-220	600	160	2.1 ... 3.9	24.3
IPP60R165CP	SP000084279	IPP60R165CPAKSA1	TO-220	600	165	2.5 ... 3.5	21
SPP24N60CFD	SP000264426	SPP24N60CFDHKSA1	TO-220	600	185	3.0 ... 5.0	21.7
SPP24N60CFD	SP000681070	SPP24N60CFDXKSA1	TO-220	600	185	3.0 ... 5.0	21.7
SPP20N60C3	SP000013527	SPP20N60C3HKSA1	TO-220	600	190	2.1 ... 3.9	20.7
SPP20N60C3	SP000681058	SPP20N60C3XKSA1	TO-220	600	190	2.1 ... 3.9	20.7
IPP60R199CP	SP000084278	IPP60R199CPXKSA1	TO-220	600	199	2.5 ... 3.5	16
SPP20N60CFD	SP000014475	SPP20N60CFDHKSA1	TO-220	600	220	3.0 ... 5.0	20.7
SPP20N60CFD	SP000681060	SPP20N60CFDXKSA1	TO-220	600	220	3.0 ... 5.0	20.7
IPP60R250CP	SP000358136	IPP60R250CPXKSA1	TO-220	600	250	2.5 ... 3.5	12
SPP15N60C3	SP000014527	SPP15N60C3HKSA1	TO-220	600	280	2.1 ... 3.9	15
SPP15N60C3	SP000681050	SPP15N60C3XKSA1	TO-220	600	280	2.1 ... 3.9	15
IPP60R299CP	SP000084280	IPP60R250CPXKSA1	TO-220	600	299	2.5 ... 3.5	11
SPP15N60CFD	SP000264425	SPP15N60CFDHKSA1	TO-220	600	330	3.0 ... 5.0	13.4
SPP15N60CFD	SP000681052	SPP15N60CFDXKSA1	TO-220	600	330	3.0 ... 5.0	13.4
SPP11N60C3	SP000013526	SPP11N60C3HKSA1	TO-220	600	380	2.1 ... 3.9	11
SPP11N60C3	SP000681040	SPP11N60C3XKSA1	TO-220	600	380	2.1 ... 3.9	11
IPP60R385CP	SP000082281	IPP60R385CPXKSA1	TO-220	600	385	2.5 ... 3.5	9.0
SPP11N60CFD	SP000014533	SPP11N60CFDHKSA1	TO-220	600	385	3.0 ... 5.0	11
SPP11N60CFD	SP000681042	SPP11N60CFDXKSA1	TO-220	600	385	3.0 ... 5.0	11
IPP60R520CP	SP000405860	IPP60R520CPAKSA1	TO-220	600	520	2.5 ... 3.5	6.8
IPP60R600CP	SP000405888	IPP60R600CPAKSA1	TO-220	600	600	2.5 ... 3.5	6.1

SMD = Surface Mounted Device

Power Semiconductors

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

Smart High-Side Switches

Mini PROFET™ for automotive applications

BSP452	SP000272112	BSP452HUMA1	SOT223	41	200	> 0.7	1.5
BSP742R	SP000272115	BSP742RXUMA1	PG-DSO-8-24	41	350	> 0.4	1.2
BSP742RI	SP000278925	BSP742RIXUMA1	PG-DSO-8-24	41	350	> 0.4	1.2
BSP742T	SP000311133	BSP742TXUMA1	PG-DSO-8-24	41	350	0.8	4
BSP752R	SP000355392	BSP752RXUMA2	PG-DSO-8-24	62	200	1.3	6.5
BSP752T	SP000278359	BSP752TXUMA1	PG-DSO-8-24	62	200	1.3	6.5
BSP762T	SP000272118	BSP762TXUMA1	PG-DSO-8-24	41	100	2	10
BSP772T	SP000355395	BSP772TXUMA1	PG-DSO-8-24	41	60	2.6	17
BTS441RG	SP000355405	BTS441RGATMA1	PG-TO263-5-2	> 40	20	7.2	65
BTS441TG	SP000311504	BTS441TGATMA1	PG-TO263-5-2	> 40	20	7.2	65
BTS452R	SP000506224	BTS452RATMA1	PG-TO252-5-11	62	200	1.7	6.5
BTS452T	SP000506226	BTS452TATMA1	PG-TO252-5-11	62	200	1.7	6.5
BTS462T	SP000506232	BTS462TATMA1	PG-TO252-5-1	41	100	2.3	14
BTS4140N	SP000272323	BTS4140NHUMA1	SOT223	62	1000	0.2	0.9
BTS4141N	SP000302609	BTS4141NHUMA1	SOT223	47	200	0.7	1.4
BTS4142N	SP000355402	BTS4142NHUMA1	SOT223	47	200	1.4	3
BTS4175SGA	SP000360279	BTS4175SGAXUMA1	PG-DSO-8-24	> 52	175	1.3	6
BTS4300SGA	SP000360280	BTS4300SGAXUMA1	PG-DSO-8-24	> 34	300	0.4	0.4

Mini PROFET™ for industrial applications

ISP452	SP000219823	ISP452HUMA1	SOT223	41	200	> 0.7	1.5
ISP742RI	SP000221229	ISP742RIFUMA1	PG-DSO-8-6	41	350	> 0.4	1.2
ISP752R	SP000219825	ISP752RFUMA1	PG-DSO-8-6	62	200	1.3	6.5
ISP752T	SP000211730	ISP752TFUMA1	PG-DSO-8-6	62	200	1.3	6.5
ISP762T	SP000221228	ISP762TFUMA1	PG-DSO-8-6	41	100	2	10
ISP772T	SP000219824	ISP772TFUMA1	PG-DSO-8-6	41	60	2.6	17
ITS4140N	SP000240073	ITS4140NHUMA1	SOT223	62	1000	0.2	0.9
ITS4141D	SP000221235	ITS4141DBUMA1	P-TO252-5-1	47	200	0.7	1.4
ITS4141N	SP000219536	ITS4141NHUMA1	SOT223	47	200	0.7	1.4
ITS4142N	SP000221218	ITS4142NHUMA1	SOT223	47	200	1.4	3

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_{DS}	$R_{DS(on)}$	I_D	f_s
				V	Ω	A	kHz

Power Management ICs

Integrated Power ICs

Quasi

	ICE2QR0665	SP000453680	ICE2QR0665CKLA1	DIP-8	650	0.65	2.5	NA
	ICE2QR1765	SP000785528	ICE2QR1765HKLA1	DIP-8	650	1.7	1.5	NA
	ICE2QR1765	SP000717522	CE2QR1765XKLA1	DIP-8	650	1.7	1.5	NA
	ICE2QR4765	SP000644950	ICE2QR4765XKLA1	DIP-8	650	1.7	0.5	NA
	ICE2QR4765	SP000785534	ICE2QR4765HKLA1	DIP-8	650	4.7	0.5	NA
▼	ICE2QR0665Z	SP000895806	ICE2QR0665ZXKLA1	DIP-7	650	0.65	2.5	NA
▼	ICE2QR1065Z	SP000905490	ICE2QR1065ZXKLA1	DIP-7	650	0.92	2.0	NA
▼	ICE2QR1765Z	SP000905534	ICE2QR1765ZXKLA1	DIP-7	650	1.7	1.5	NA
▼	ICE2QR4765Z	SP000905544	ICE2QR4765ZXKLA1	DIP-7	650	4.7	0.5	NA
▼	ICE2QR0665G	SP000907678	ICE2QR0665GXUMA1	SO-16/12	650	0.65	2.5	NA
▼	ICE2QR1765G	SP000905550	ICE2QR1765GXUMA1	SO-16/12	650	1.7	1.5	NA
▼	ICE2QR4765G	SP000907668	ICE2QR4765GXUMA1	SO-16/12	650	4.7	0.5	NA

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

TCA305G	SP000697964	TCA305GXLLA1		ICs for inductive proximity switches, tube
TCA305G GEG	SP000783570	TCA305GGEGXUMA1		ICs for inductive proximity switches, tape & reel
TCA355G	SP000697950	TCA355GXLLA1		ICs for inductive proximity switches, tube
TCA355G GEG	SP000744922	TCA355GGEGXUMA1		ICs for inductive proximity switches, tape & reel
TCA505BG GEG	SP000242373	TCA505BGGEGXUMA1		ICs for inductive proximity switches with short-circuit protection, tape & reel

Power Driver ICs

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

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

SAE0800	SP000011614	SAE800HKLA1	P-DIP-8-1	Programmable single-, dual- and triple-tone gong, tube
SAE0800G	SP000697948	SAE800GXLLA1		

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 V	I_D mA	NF dB	G dB	f MHz	

RF MMICs

UMTS/3G/4G LNA

BGA711L7	7.5k*	SP000417112	BGA711L7E6327XTSA1	TSLP-7-1	3.6	10	1.1	17	2100
▼ BGA713L7	7.5k*	SP000846762	BGA713L7E6327XTSA1	TSLP-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
BGA751L7	7.5k*	SP000417120	BGA751L7E6327XTSA1	TSLP-7-1	3.6	10	1.05	16	800
BGA777L7	7.5k*	SP000627608	BGA777L7E6327XTSA1	TSLP-7-1	3.6	10	1.2	16	650

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

* order unit

SMD = Surface Mounted Device

RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Characteristics		
				$V_{BR(min)}$ V	$V_{ESD(min)}$ kV	GSM-Rejection @900 MHz dB

ESD and EMI Protection Devices and Filters

Infineon® Hipac Audio Line Interfaces

BGF113	4.5k*	SP000415014	BGF113E6328XTSA1	S-WLP-8-6	4.0	15	50
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Data Interfaces (LCD-, Camera-, Keypad interface protection, I/O data lines)

BGF108C	4.5k*	SP000482542	BGF108CE6328XTSA1	S-WLP-18-4	4.0	15	22
BGF109C	4.5k*	SP000465532	BGF109CE6328XTSA1	S-WLP-24-9	4.0	15	28

General Purpose

BGF112	4.5k*	SP000459860	BGF112E6328XTSA1	S-WLP-5-1	4.0	15	34
BGF119	9k*	SP000681630	BGF119E6329XTSA1	S-WLP-4-1	4.0	15	34
BGF121	9k*	SP000681628	BGF121E6329XTSA1	S-WLP-4-1	1.0	15	–

MMIC-, SD-, µSD-Card and SIM-Card Interfaces

BGF104C	4.5k*	SP000703762	BGF104CE6328XTSA1	S-WLP-16-3	5.0	15	12
BGF106C	4.5k*	SP000646832	BGF106CE6328XTSA1	S-WLP-8-11	5.0	15	14
BGF117	4.5k*	SP000737100	BGF117E6328XTSA1	S-WLP-16-4	5.0	15	10

HDMI Interfaces

▼ BGF127	4.5k*	SP000609000	BGF127E6328XTSA1	S-WLP-9-1	5.3	15	n.a.
▼ BGF128	4.5k*	SP000515192	BGF128E6328XTSA1	S-WLP-8-9	5.0	15	n.a.

* order unit

SMD = Surface Mounted Device

LED Driver & Lighting ICs

Type	Ordering Code	Orderable Part Number	Package	Description
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Switch-Mode and Linear LED Drivers for Automotive Lighting Applications

Basic LED Driver ICs

TLE4240-2M	SP000255105	TLE42402MHTSA1	SCT595	Lowdrop LED driver, 58 mA current output, tape & reel
TLE4240-3M	SP000255106	TLE42403MHTSA1	SCT595	Lowdrop LED driver, 58 mA current output, open load detection, tape & reel
TLE4241GM	SP000410436	TLE4241GMFUMA1	PG-DSO-8-9	Lowdrop LED driver, with adjustable current output (8/65 V), Inhibit, tape & reel
TLE4242G	SP000299340	TLE4242GATMA1	PG-TO263-7-1	Lowdrop LED driver, with adjustable current output up to 500 mA, Inhibit, tape & reel
TLD1211SJ	SP000735204	TLD1211SJFUMA1	PG-DSO-8-16	Basic LED driver, high side current source, 1 channel, typical 85 mA load current, up to 2.5 A load current using external transistors, tape & reel

Power LED Driver ICs

▼ TLD5045EJ	SP000769888	TLD5045EJXUMA1	PG-DSO-8 EP	Power LED driver, 700 mA high integration DC/DC step-down converter, constant current generation, peak current regulation, tape & reel
TLD5085EJ	SP000550912	TLD5085EJFUMA1	PG-DSO-8 EP	Power LED driver, 1.8 A DC/DC step-down converter, constant current or constant voltage regulation, PWM dimming, tape & reel
TLD5095EL	SP000464524	TLD5095ELXUMA1	PG-SSOP-14 EP	Power LED driver, DC/DC Boost, Buck Boost, SEPIC controller, constant current or constant voltage regulation, Enable function, implemented status pin to indicate fault conditions, tape & reel
TLD5098EL	SP000671268	TLD5098ELXUMA1	PG-SSOP-14 EP	Power LED driver, DC/DC Boost, Buck Boost, SEPIC controller, constant current or constant voltage regulation, Enable function, analog dimming feature to adjust average LED current, tape & reel

Off-Line LED Driver ICs

ICL8001G	SP000773086	ICL8001GXUMA1	PG-DSO-8-1	LED driver for ultra-high-power LEDs, with adjustable up to 1.8 A constant current, integrated power stage, dimmable solutions, tape & reel
▼ ICL8082G	SP000899842	ICLS8082GXUMA1	PG-DSO-12-1	Off-line LED controller for PFC and dimming with integrated 800 V CoolMOS™, tape & reel
▼ ICLS6021J	SP000869140	ICLS6021JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 1.6 A, tube
▼ ICLS6022G	SP000897654	ICLS6022GXUMA1	PG-DSO-16/12	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 2.3 A, tape & reel
▼ ICLS6022J	SP000877356	ICLS6022JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 2.3 A, tube
▼ ICLS6023J	SP000890998	ICLS6023JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 6.1 A, tube
▼ ICLS6023Z	SP000891000	ICLS8023ZXKLA1	PG-DIP-7-1	Off-line LED current mode controller with integrated 800 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 4.9 A, tube

SMD = Surface Mounted Device

Summary of Types

Type	Ordering Code	Orderable Part Number	Page	Type	Ordering Code	Orderable Part Number	Page
BSP752T	SP000278359	BSP752TXUMA1	112	BSZ086P03NS3 G	SP000473024	BSZ086P03NS3GATMA1	97
BSP75N	SP000305171	BSP75NHUMA1	110	BSZ086P03NS3E G	SP000473016	BSZ086P03NS3EGATMA1	97
BSP76 E6433	SP000379611	BSP76E6433HUMA1	110	BSZ088N03LS G	SP000304138	BSZ088N03LSGATMA1	76
BSP762T	SP000272118	BSP762TXUMA1	112	BSZ088N03MS G	SP000311509	BSZ088N03MSGATMA1	77
BSP77 E6433	SP000383400	BSP77E6433HUMA1	110	BSZ0901NS	SP000854570	BSZ0901NSATMA1	75
BSP772T	SP000355395	BSP772TXUMA1	112	BSZ0901NSI	SP000853566	BSZ0901NSIATMA1	75
BSP78	SP000292892	BSP78HUMA1	110	BSZ0902NS	SP000854386	BSZ0902NSATMA1	75
BSP88	SP000089217	BSP88L6327HTSA1	85	BSZ0902NSI	SP000854388	BSZ0902NSIATMA1	75
BSP89	SP000089216	BSP89L6327HTSA1	85	BSZ0904NSI	SP000854390	BSZ0904NSIATMA1	75
BSP92P	SP000089223	BSP92PL6327HTSA1	96	BSZ0909NS	SP000832568	BSZ0909NSATMA1	76
BSR202N	SP000257784	BSR202NL6327HTSA1	74	BSZ097N04LS G	SP000388296	BSZ097N04LSGATMA1	78
BSR302N	SP000257785	BSR302NL6327HTSA1	75	BSZ100N03LS G	SP000304135	BSZ100N03LSGATMA1	77
BSR315P	SP000265405	BSR315PL6327HTSA1	96	BSZ100N03MS G	SP000311510	BSZ100N03MSGATMA1	77
BSR316P	SP000265407	BSR316PL6327HTSA1	96	BSZ100N06LS3 G	SP000453672	BSZ100N06LS3GATMA1	79
BSR802N	SP000442484	BSR802NL6327HTSA1	74	BSZ105N04NS G	SP000388301	BSZ105N04NSGATMA1	78
BSR92P	SP000265408	BSR92PL6327HTSA1	96	BSZ110N06NS3 G	SP000453676	BSZ110N06NS3GATMA1	79
BSS119	SP000247290	BSS119L6327HTSA1	83	BSZ120P03NS3 G	SP000709736	BSZ120P03NS3GATMA1	97
BSS119 L6433	SP000247291	BSS119L6433HTMA1	83	BSZ120P03NS3E G	SP000709730	BSZ120P03NS3EGATMA1	97
BSS123	SP000084574	BSS123L6327HTSA1	83	BSZ123N08NS3 G	SP000443632	BSZ123N08NS3GATMA1	81
BSS123 L6433	SP000247292	BSS123L6433HTMA1	83	BSZ12DN20NS3 G	SP000781784	BSZ12DN20NS3GATMA1	85
BSS126	SP000919334	BSS126H6327XTSA2	99	BSZ130N03LS G	SP000278810	BSZ130N03LSGATMA1	76
BSS126 H6906	SP000705716	BSS126H6906XTSA1	99	BSZ130N03MS G	SP000313122	BSZ130N03MSGATMA1	77
BSS127	SP000705718	BSS127H6327XTSA1	90	BSZ160N10NS3 G	SP000482390	BSZ160N10NS3GATMA1	82
BSS131	SP000702620	BSS131H6327XTSA1	85	BSZ165N04NS G	SP000391523	BSZ165N04NSGATMA1	78
BSS138N	SP000919330	BSS138NH6327XTSA2	80	BSZ16DN25NS3 G	SP000781800	BSZ16DN25NS3GATMA1	85
BSS138N L6433	SP000924060	BSS138NH6433XTMA1	80	BSZ180P03NS3 G	SP000709744	BSZ180P03NS3GATMA1	97
BSS138W	SP000245411	BSS138WL6327HTMA1	80	BSZ180P03NS3E G	SP000709740	BSZ180P03NS3EGATMA1	97
BSS138W	SP000924068	BSS138WH6327XTSA1	80	BSZ22DN20NS3 G	SP000781794	BSZ22DN20NS3GATMA1	85
BSS138W H6433	SP000917558	BSS138WH6433XTMA1	80	BSZ240N12NS3 G	SP000819814	BSZ240N12NS3GATMA1	84
BSS138W L6433	SP000245412	BSS138WL6433HTMA1	80	BSZ340N08NS3 G	SP000443634	BSZ340N08NS3GATMA1	81
BSS139	SP000702610	BSS139H6327XTSA1	99	BSZ42DN15NS3 G	SP000781796	BSZ42DN15NS3GATMA1	85
BSS139 H6906	SP000702612	BSS139H6327XTSA1	99	BSZ440N10NS3 G	SP000482442	BSZ440N10NS3GATMA1	82
BSS159N	SP000919328	BSS159NH6327XTSA2	99	BSZ520N15NS3 G	SP000607022	BSZ520N15NS3GATMA1	84
BSS159N H6906	SP000702636	BSS159NH6906XTSA1	99	BSZ900N15NS3 G	SP000677866	BSZ900N15NS3GATMA1	84
BSS159N L6906	SP000247298	BSS159NL6906HTSA1	99	BSZ900N20NS3 G	SP000781806	BSZ900N20NS3GATMA1	85
BSS169	SP000702572	BSS169H6327XTSA1	99	BTFF500601TEA	SP000629444	BTFF500601TEAUAUMA1	114
BSS169 H6906	SP000702582	BSS169H6327XTSA1	99	BTM7700G	SP000306876	BTM7700GXUMA1	120
BSS169 L6906	SP000247300	BSS169L6906HTSA1	99	BTM7710G	SP000306878	BTM7700GXUMA1	120
BSS192P	SP000095795	BSS192PL6327HTSA1	96	BTM7710GP	SP000303743	BTM7710GPAUMA1	120
BSS205N	SP000929180	BSS205NH6327XTSA1	74	BTM7740G	SP000306879	BTM7740GXUMA1	120
BSS209PW	SP000245422	BSS209PWL6327HTMA1	97	BTM7741G	SP000306880	BTM7741GXUMA1	120
BSS214N	SP000928936	BSS214NH6327XTSA1	74	BTM7742G	SP000777046	BTM7742GXUMA1	120
BSS214NW	SP000440880	BSS214NWL6327HTMA1	74	BTM7745G	SP000777048	BTM7745GXUMA1	120
BSS214NW H6327	SP000917560	BSS214NWH6327XTSA1	74	BTM7750G	SP000306881	BTM7750GXUMA1	120
BSS215P	SP000928938	BSS215PH6327XTSA1	97	BTM7750GP	SP000303751	BTM7750GPAUMA1	120
BSS223PW	SP000245423	BSS223PWL6327HTMA1	97	BTM7751G	SP000306882	BTM7751GXUMA1	120
BSS223PW	SP000843010	BSS223PWH6327XTSA1	97	BTM7752G	SP000267008	BTM7752GXUMA1	120
BSS225	SP000095776	BSS225L6327HTSA1	90	BTM7755G	SP000267009	BTM7755GXUMA1	120
BSS306N	SP000928940	BSS306NH6327XTSA1	75	BTM7810K	SP000311145	BTM7810KAUMA1	120
BSS314PE	SP000928944	BSS314PEH6327XTSA1	97	BTM7811K	SP000303752	BTM7811KAUMA1	120
BSS315P	SP000928946	BSS315PH6327XTSA1	97	BTN7930B	SP000299767	BTN7930BAUMA1	120
BSS316N	SP000928948	BSS316NH6327XTSA1	75	BTN7930P	SP000314911	BTN7930PAKSA1	120
BSS308PE	SP000928942	BSS308PEH6327XTSA1	97	BTN7930S	SP000355958	BTN7930PAKSA1	120
BSS670S2L	SP000928950	BSS670S2LH6327XTSA1	78	BTN7933B	SP000481546	BTN7933BAUMA1	120
BSS7728N	SP000702640	BSS7728NH6327XTSA1	80	BTN7960B	SP000299768	BTN7960BAUMA1	120
BSS7728N	SP000929184	BSS7728NH6327XTSA2	80	BTN7963B	SP000481608	BTN7963BAUMA1	121
BSS806N	SP000928952	BSS806NH6327XTSA1	74	BTN7970B	SP000299769	BTN7970BAUMA1	121
BSS816NW	SP000464852	BSS816NWL6327HTMA1	74	BTN7970P	SP000355967	BTN7970PAKSA1	121
BSS816NW H6327	SP000917562	BSS816NWH6327XT	74	BTN7970S	SP000355961	BTN7970SAKSA1	121
BSS83P	SP000702486	BSS83PH6327XTSA1	96	BTN7971B	SP000379686	BTN7971BAUMA1	121
BSS84P	SP000929186	BSS84PH6327XTSA2	96	BTN7973B	SP000481626	BTN7973BAUMA1	121
BSS84P L6433	SP000924084	BSS84PH6433XTMA1	96	BTS 824R	SP0000013628	BTS824RNUMA1	116
BSS84PW	SP000247312	BSS84PWL6327HTMA1	96	BTS110	SP0000011184	BTS110NKSA1	109
BSS84PW H6327	SP000917564	BSS84PWH6327XTSA1	96	BTS110 E3045A	SP0000011183	BTS110E3045ANTMA1	109
BSS87	SP000095794	BSS87L6327HTSA1	85	BTS112A	SP0000011185	BTS112ANKSA1	109
BSV236SP	SP000245421	BSV236SPL6327HTSA1	97	BTS112A E3045A	SP0000011186	BTS112AE3045ANTMA1	109
BSV236SP	SP000917672	BSV236SPH6327XTSA1	97	BTS113A	SP0000011187	BTS113ANKSA1	109
BSZ018NE2LS	SP000756338	BSZ018NE2LSATMA1	74	BTS113A E3045A	SP0000011188	BTS113AE3045ANTMA1	109
BSZ018NE2LSI	SP000906032	BSZ018NE2LSIATMA1	74	BTS113A E3064	SP0000011189	BTS113AE3064NKSA1	109
BSZ019N03LS	SP000792362	BSZ019N03LSATMA1	75	BTS114A	SP0000011191	BTS114ANKSA1	109
BSZ035N03LS G	SP000278809	BSZ035N03LSGATMA1	75	BTS114A E3045A	SP0000011192	BTS114AE3045ANTMA1	109
BSZ035N03MS G	SP000311511	BSZ035N03MSGATMA1	77	BTS115A	SP0000011193	BTS115ANKSA1	109
BSZ036NE2LS	SP000854572	BSZ036NE2LSATMA1	74	BTS115A E3045A	SP0000011194	BTS115AE3045ANTMA1	109
BSZ040N04LS G	SP000388295	BSZ040N04LSGATMA1	78	BTS117	SP0000011195	BTS117NKSA1	110
BSZ042N04NS G	SP000388300	BSZ042N04NSGATMA1	78	BTS117 E3044A	SP0000011198	BTS117E3044ANTMA1	110
BSZ042N06NS G	SP000917418	BSZ042N06NSATMA1	79	BTS117TC	SP000668258	BTS117TCBUMA1	110
BSZ050N03LS G	SP000304139	BSZ050N03LSGATMA1	76	BTS118D	SP000506212	BTS118DATMA1	110
BSZ050N03MS G	SP000311518	BSZ050N03MSGATMA1	77	BTS121A	SP000001200	BTS121ANKSA1	109
BSZ058N03LS G	SP000307424	BSZ058N03LSGATMA1	76	BTS121A E3045A	SP000001201	BTS121AE3045ANTMA1	109
BSZ058N03MS G	SP000311508	BSZ058N03MSGATMA1	77	BTS129	SP000001202	BTS129NKSA1	109
BSZ060NE2LS	SP000776122	BSZ060NE2LSATMA1	74	BTS129 E3045A	SP000001203	BTS129E3045ANTMA1	109
BSZ065N03LS	SP000799084	BSZ065N03LSATMA1	76	BTS131	SP000001204	BTS131NKSA1	109
BSZ067N06LS3 G	SP000451080	BSZ067N06LS3GATMA1	79	BTS131 E3045A	SP000001206	BTS131E3045ANTMA1	109
BSZ076N06LS3 G	SP000454420	BSZ076N06NS3GATMA1	79	BTS132 E3045A	SP000001210	BTS132E3045ANTMA1	109

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