



Welcome to [E-XFL.COM](#)

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	Not For New Designs
Core Processor	C166SV2
Core Size	16/32-Bit
Speed	40MHz
Connectivity	I ² C, LINbus, SPI, SSC, UART/USART, USI
Peripherals	I ² S, POR, PWM, WDT
Number of I/O	33
Program Memory Size	32KB (32K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	6K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V
Data Converters	A/D 10x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	48-VFQFN Exposed Pad
Supplier Device Package	PG-VQFN-48-54
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/xc2220u4f40vaakfuma1

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 8-bit				
XC800 Family XC822 & XC824 Series				
SAF-XC822-1FRA AA-Step	SP000873390	XC8221FRAAFXUMA1	PG-TSSOP-16-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 4-Kbyte program flash, 0.128-Kbyte data flash, automotive quality level, 256-byte RAM, 256-byte XRAM, capture/compare unit, three 16-bit timers/counters, four 10-bit ADC channels, embedded voltage regulator (EVR), programmable 16-bit watchdog timer, no multiplication/division unit (MDU), no LED and touch sense controller (LEDTSCU), 24-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XC822-1FRI AA-Step	SP000795354	XC8221FRIAFXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, industry quality level, tape & reel
SAK-XC822-1FRA AA-Step	SP000873388	XC8221FRAAKXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, -40°C to 125°C, tape & reel
SAF-XC822M-1FRI AA-Step	SP000771768	XC822M1FRIAFXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, industry quality level, multiplication/division unit (MDU), no LED and touch sense controller (LEDTSCU), tape & reel
SAK-XC822MT-0FRA AA-Step	SP000898396	XC822MT0FRAAKXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, 2-Kbyte program flash, multiplication/division unit (MDU), LED and touch sense controller (LEDTSCU), -40°C to 125°C, tape & reel
SAF-XC822MT-1FRA AA-Step	SP000873396	XC822MT1FRAAFXUMA1	PG-TSSOP-16-1	as SAK-XC822MT-0FRA, 4-Kbyte program flash, -40°C to 85°C, tape & reel
SAK-XC822MT-1FRA AA-Step	SP000847976	XC822MT1FRAAKXUMA1	PG-TSSOP-16-1	as SAF-XC822MT-1FRA, -40°C to 125°C, tape & reel
SAF-XC822MT-1FRI AA-Step	SP000795358	XC822MT1FRIAFXUMA1	PG-TSSOP-16-1	as SAF-XC822MT-1FRA, industry quality level, tape & reel
SAF-XC822T-0FRI AA-Step	SP000795350	XC822T0FRIAFXUMA1	PG-TSSOP-16-1	as SAF-XC822MT-1FRI, 2-Kbyte program flash, no multiplication/division unit (MDU), LED and touch sense controller (LEDTSCU), tape & reel
SAF-XC822T-1FRI AA-Step	SP000797572	XC822T1FRIAFXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRI, no multiplication/division unit (MDU), LED and touch sense controller (LEDTSCU), tape & reel

SMD = Surface Mounted Device

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

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 8-bit				
XC800 Family				
XC866 Series				
SAK-XC866-1FRA AB-Step	SP000235420	XC8661FRAABKXUMA1	PG-TSSOP-38-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 4-Kbyte program flash, up to 8-Kbyte data flash, automotive quality level, 256-byte RAM, 512-byte XRAM, capture/compare unit, three 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, -40°C to 125°C, tape & reel
SAF-XC866-1FRI AB-Step	SP000244527	XC8661FRIABFXUMA1	PG-TSSOP-38-1	as SAK-XC866-1FRA, industry quality level, -40°C to 85°C, tape & reel
SAA-XC866-2FRA BE-Step	SP000281789	XC8662FRA5VBEAXUMA1	PG-TSSOP-38-1	as SAF-XC866-1FRA, 8-Kbyte program flash, -40°C to 140°C, tape & reel
SAF-XC866-2FRA BE-Step	SP000281796	XC8662FRABEFXUMA1	PG-TSSOP-38-1	as SAA-XC866-1FRA, -40°C to 85°C, tape & reel
SAK-XC866-2FRA BE-Step	SP000272971	XC8662FRABEKXUMA1	PG-TSSOP-38-1	as SAF-XC866-2FRA, -40°C to 125°C, tape & reel
SAF-XC866-2FRI BE-Step	SP000245777	XC8662FRIBEFXUMA1	PG-TSSOP-38-1	as SAF-XC866-2FRA, industry quality level, tape & reel
SAK-XC866-2FRI BE-Step	SP000245783	XC8662FRIBEKXUMA1	PG-TSSOP-38-1	as SAF-XC866-2FRI, -40°C to 125°C, tape & reel
SAA-XC866-4FRA BE-Step	SP000281792	XC8664FRA5VBEAXUMA1	PG-TSSOP-38-1	as SAA-XC866-2FRA, 16-Kbyte program flash, tape & reel
SAF-XC866-4FRA BE-Step	SP000281799	XC8664FRABEFXUMA1	PG-TSSOP-38-1	as SAA-XC866-2FRA, -40°C to 85°C, tape & reel
SAK-XC866-4FRA BE-Step	SP000245770	XC8664FRABEKXUMA1	PG-TSSOP-38-1	as SAF-XC866-4FRA, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 16-bit				
C166 Family				
C161CS, JC, JI Series				
SAB-C161CS-LF CA-Step	SP000106860	C161CSLFCABXQMA1	PG-TQFP-128-2	ROMless, 10-Kbyte on-chip SRAM, two on-chip CAN-interfaces (CAN1,CAN2), two 16-channel capture/ compare units, 12-channel 10-bit ADC, watchdog timer, oscillator watchdog, additional 32-kHz oscillator, 25-MHz clock frequency, 0°C to 70°C, tray
SAB-C161CS-LF CA-Step	SP000106861	C161CSLFCABXUMA1	PG-TQFP-128-2	as SAB-C161CS-LF, tape & reel
SAF-C161CS-LF CA-Step	SP000106865	C161CSLFCAFXQMA1	PG-TQFP-128-2	as SAB-C161CS-LF, -40°C to 85°C, tray
■ SAF-C161CS-LF CA-Step	SP000106866	C161CSLFCAFXUMA1	PG-TQFP-128-2	as SAB-C161CS-LF, -40°C to 85°C, tape & reel
SAK-C161CS-LF CA-Step	SP000106868	C161CSLFCAXQMA1	PG-TQFP-128-2	as SAF-C161CS-LF, -40°C to 125°C, tray
SAB-C161JC-LF CA-Step	SP000106862	C161JCLFCABXQMA1	PG-TQFP-128-2	as SAB-C161CS-LF, one on-chip CAN-interface (CAN1), serial data link module J1850 (SDLM), tray
SAK-C161JC-LF CA-Step	SP000106870	C161JCLFCAXQMA1	PG-TQFP-128-2	as SAB-C161JC-LF, -40°C to 125°C, tray

SMD = Surface Mounted Device

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

Automotive N-Channel MOSFETs

40V

(cont'd)

IPG20N04S4L-07	SP000705484	IPG20N04S4L07ATMA1	PG-TDSON-8-4	40	2 x 7.2	1.2 ... 2.2	20
▼ IPG20N04S4L-07A	SP001061264	IPG20N04S4L07AATMA1	PG-TDSON-8-10	40	2 x 7.2	1.2 ... 2.2	20
IPG20N04S4L-08	SP000705576	IPG20N04S4L08ATMA1	PG-TDSON-8-4	40	2 x 8.2	1.2 ... 2.2	20
▼ IPG20N04S4-08A	SP000938100	IPG20N04S408AATMA1	PG-TDSON-8-10	40	2 x 8.2	2.0 ... 4.0	20
IPG20N04S4-08	SP000705582	IPG20N04S408ATMA1	PG-TDSON-8-4	40	2 x 7.6	2.0 ... 4.0	20
IPG20N04S4-09	SP000705570	IPG20N04S409ATMA1	PG-TDSON-8-4	40	2 x 8.6	2.0 ... 4.0	20
IPG20N04S4L-11	SP000705564	IPG20N04S4L11ATMA1	PG-TDSON-8-4	40	2 x 11.6	1.2 ... 2.2	20
IPG20N04S4-12	SP000705560	IPG20N04S412ATMA1	PG-TDSON-8-4	40	2 x 12.2	2.0 ... 4.0	20
▼ IPG20N04S4-12A	SP000938098	IPG20N04S412AATMA1	PG-TDSON-8-10	40	2 x 12.2	2.0 ... 4.0	20
IPI120N04S4-01	SP000705722	IPI120N04S401AKSA1	PG-TO262-3-1	40	1.5	2.0 ... 4.0	120
IPI120N04S4-02	SP000764742	IPI120N04S402AKSA1	PG-TO262-3-1	40	1.8	2.0 ... 4.0	120
IPI90N04S4-04	SP000646194	IPI90N04S402AKSA1	PG-TO262-3-1	40	2.1	2.0 ... 4.0	90
■ IPI120N04S3-02	SP000261225	IPI120N04S302AKSA1	PG-TO262-3-1	40	2.3	2.1 ... 4.0	120
IPI100N04S4-H2	SP000711282	IPI100N04S4H2AKSA1	PG-TO262-3-1	40	2.4	2.0 ... 4.0	100
■ IPI100N04S4-03M	SP000850484	IPI100N04S403DXKSA1	PG-TO262-3-1	40	2.5	2.1 ... 4.0	100
IPI100N04S3-03	SP000465798	IPI100N04S303MATMA2	PG-TO262-3-1	40	2.5	2.0 ... 4.0	100
■ IPI80N04S3-03	SP000261238	IPI80N04S303AKSA1	PG-TO262-3-1	40	3.0	2.1 ... 4.0	80
■ IPI100N04S3-03	SP000261223	IPI100N04S303AKSA1	PG-TO262-3-1	40	3.3	2.1 ... 4.0	100
IPI80N04S4-03	SP000671634	IPI80N04S403AKSA1	PG-TO262-3-1	40	3.3	2.0 ... 4.0	80
IPI80N04S2-04	SP000219058	IPI80N04S204AKSA1	PG-TO262-3-1	40	3.7	2.1 ... 4.0	80
IPI80N04S2-H4	SP000218171	IPI80N04S2H4AKSA1	PG-TO262-3-1	40	4.0	2.1 ... 4.0	80
IPI80N04S4L-04	SP000646192	IPI80N04S4L04AKSA1	PG-TO262-3-1	40	4.0	1.2 ... 2.0	80
IPI80N04S4-04	SP000646190	IPI80N04S404AKSA1	PG-TO262-3-1	40	4.2	2.0 ... 4.0	80
■ IPI80N04S3-04	SP000261226	IPI80N04S304AKSA1	PG-TO262-3-1	40	4.3	2.1 ... 4.0	80
■ IPI80N04S3-H4	SP000415630	IPI80N04S3H4AKSA1	PG-TO262-3-1	40	4.8	2.1 ... 4.0	80
IPI70N04S4-06	SP000711484	IPI70N04S406AKSA1	PG-TO262-3-1	40	6.2	2.0 ... 4.0	70
■ IPI80N04S3-06	SP000261237	IPI80N04S306AKSA1	PG-TO262-3-1	40	6.3	2.1 ... 4.0	80
■ IPI70N04S3-03	SP000279551	IPI70N04S307AKSA1	PG-TO262-3-1	40	6.8	2.1 ... 4.0	70
IPP120N04S4-01	SP000705704	IPP120N04S401AKSA1	PG-TO220-3-1	40	1.5	2.0 ... 4.0	120
IPP120N04S4-02	SP000764734	IPP120N04S402AKSA1	PG-TO220-3-1	40	1.8	2.0 ... 4.0	120
IPP90N04S4-02	SP000646200	IPP90N04S402AKSA1	PG-TO220-3-1	40	2.1	2.0 ... 4.0	90
■ IPP120N04S3-02	SP000261228	IPP120N04S302AKSA1	PG-TO220-3-1	40	2.3	2.1 ... 4.0	120
IPP100N04S4-H2	SP000711278	IPP100N04S4H2AKSA1	PG-TO220-3-1	40	2.4	2.0 ... 4.0	100
IPP100N04S3-03	SP000850486	IPP100N04S403DXKSA1	PG-TO220-3-1	40	2.5	2.0 ... 4.0	100
■ IPP80N04S3-03	SP000261229	IPP80N04S303AKSA1	PG-TO220-3-1	40	3.0	2.1 ... 4.0	80
IPP80N04S2L-03	SP000219063	IPP80N04S2L03AKSA1	PG-TO220-3-1	40	3.3	1.2 ... 2.0	80
IPP100N04S2L-03	SP000219062	IPP100N04S2L03AKSA1	PG-TO220-3-1	40	3.3	1.2 ... 2.0	100
IPP100N04S2-04	SP000219056	IPP100N04S204AKSA1	PG-TO220-3-1	40	3.3	2.1 ... 4.0	100
■ IPP100N04S3-03	SP000261227	IPP100N04S303AKSA1	PG-TO220-3-1	40	3.3	2.1 ... 4.0	100
IPP80N04S4-03	SP000671756	IPP80N04S403AKSA1	PG-TO220-3-1	40	3.3	2.0 ... 4.0	80
IPP80N04S2-04	SP000219054	IPP80N04S204AKSA1	PG-TO220-3-1	40	3.4	2.1 ... 4.0	80
IPP80N04S2-H4	SP000218169	IPP80N04S2H4AKSA1	PG-TO220-3-1	40	4.0	2.1 ... 4.0	80
IPP80N04S4L-04	SP000646198	IPP80N04S4L04AKSA1	PG-TO220-3-1	40	4.0	1.2 ... 2.0	80
IPP80N04S4-04	SP000646196	IPP80N04S404AKSA1	PG-TO220-3-1	40	4.2	2.0 ... 4.0	80
■ IPP80N04S3-04	SP000261230	IPP80N04S304AKSA1	PG-TO220-3-1	40	4.3	2.1 ... 4.0	80
■ IPP80N04S3-H4	SP000415702	IPP80N04S3H4AKSA1	PG-TO220-3-1	40	4.3	2.1 ... 4.0	80
IPP70N04S4-06	SP000711480	IPP70N04S406AKSA1	PG-TO220-3-1	40	6.2	2.0 ... 4.0	70
■ IPP70N04S3-07	SP000279559	IPP70N04S307AKSA1	PG-TO220-3-1	40	6.2	2.1 ... 4.0	80
■ IPP80N04S3-06	SP000261233	IPP80N04S306AKSA1	PG-TO220-3-1	40	6.3	2.1 ... 4.0	80

SMD = Surface Mounted Device

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

Automotive N-Channel MOSFETs**55V**

(cont'd)

IPP80N06S2L-11	SP000218175	IPP80N06S2L11AKSA1	PG-TO220-3-1	55	11	1.2 ... 2.0	80
IPP77N06S2-12	SP000218172	IPP77N06S212AKSA1	PG-TO220-3-1	55	12	2.1 ... 4.0	77
■ SPB80N06S-08	SP000084808	SPB80N06S08ATMA1	PG-TO263-3-2	55	7.7	2.1 ... 4.0	80
SPP80N06S-08	SP000084810	SPP80N06S08AKSA1	PG-TO220-3-1	55	7.7	2.1 ... 4.0	80

60V

IPB180N06S4-H1	SP000415562	IPB180N06S4H1ATMA1	PG-TO263-7-3	60	1.7	2.0 ... 4.0	180
IPB180N06S4-H1	SP001028786	IPB180N06S4H1ATMA2	PG-TO263-7-3	60	1.7	2.0 ... 4.0	180
IPB120N06S4-H1	SP000396274	IPB120N06S4H1ATMA1	PG-TO263-3-2	60	2.1	2.0 ... 4.0	120
IPB120N06S4-H1	SP001028782	IPB120N06S4H1ATMA2	PG-TO263-3-2	60	2.1	2.0 ... 4.0	120
IPB120N06S4-02	SP000415560	IPB120N06S402ATMA1	PG-TO263-3-2	60	2.4	2.0 ... 4.0	120
IPB120N06S4-02	SP001028776	IPB120N06S402ATMA2	PG-TO263-3-2	60	2.4	2.0 ... 4.0	120
IPB120N06S4-03	SP000415558	IPB120N06S403ATMA1	PG-TO263-3-2	60	2.8	2.0 ... 4.0	120
IPB120N06S4-03	SP001028770	IPB120N06S403ATMA2	PG-TO263-3-2	60	2.8	2.0 ... 4.0	120
IPB90N06S4L-04	SP000415574	IPB90N06S4L04ATMA1	PG-TO263-3-2	60	3.4	1.2 ... 2.2	90
IPB90N06S4L-04	SP001028756	IPB90N06S4L04ATMA2	PG-TO263-3-2	60	3.4	1.2 ... 2.2	90
IPB90N06S4-04	SP000379632	IPB90N06S404ATMA1	PG-TO263-3-2	60	3.7	2.0 ... 4.0	90
IPB90N06S4-04	SP001028754	IPB90N06S404ATMA2	PG-TO263-3-2	60	3.7	2.0 ... 4.0	90
IPB80N06S4L-05	SP000415570	IPB80N06S4L05ATMA1	PG-TO263-3-2	60	4.8	1.2 ... 2.2	80
IPB80N06S4L-05	SP001028720	IPB80N06S4L05ATMA2	PG-TO263-3-2	60	4.8	1.2 ... 2.2	80
IPB80N06S4-05	SP000415566	IPB80N06S405ATMA1	PG-TO263-3-2	60	5.4	2.0 ... 4.0	80
IPB80N06S4-05	SP001028718	IPB80N06S405ATMA2	PG-TO263-3-2	60	5.4	2.0 ... 4.0	80
IPB80N06S4-07	SP000415568	IPB80N06S407ATMA1	PG-TO263-3-2	60	7.1	2.0 ... 4.0	80
IPB80N06S4-07	SP001028672	IPB80N06S407ATMA2	PG-TO263-3-2	60	7.1	2.0 ... 4.0	80
IPB80N06S4L-07	SP000415572	IPB80N06S4L07ATMA1	PG-TO263-3-2	60	6.4	1.2 ... 2.2	80
IPB80N06S4L-07	SP001028674	IPB80N06S4L07ATMA2	PG-TO263-3-2	60	6.4	1.2 ... 2.2	80
IPB45N06S4L-08	SP000374316	IPB45N06S4L08ATMA1	PG-TO263-3-2	60	8.2	1.2 ... 2.2	45
IPB45N06S4L-08	SP001028654	IPB45N06S4L08ATMA2	PG-TO263-3-2	60	8.2	1.2 ... 2.2	45
IPB45N06S4-09	SP000374315	IPB45N06S409ATMA1	PG-TO263-3-2	60	9.1	2.0 ... 4.0	45
IPB45N06S4-09	SP001028652	IPB45N06S409ATMA2	PG-TO263-3-2	60	9.1	2.0 ... 4.0	45
IPD100N06S4-03	SP000415576	IPD100N06S403ATMA1	PG-TO252-3-11	60	3.5	2.0 ... 4.0	100
IPD100N06S4-03	SP001028766	IPD100N06S403ATMA2	PG-TO252-3-11	60	3.5	2.0 ... 4.0	100
IPD90N06S4L-03	SP000374326	IPD90N06S4L03ATMA1	PG-TO252-3-11	60	3.5	1.2 ... 2.2	90
IPD90N06S4L-03	SP001028764	IPD90N06S4L03ATMA2	PG-TO252-3-11	60	3.5	1.2 ... 2.2	90
IPD90N06S4-04	SP000374323	IPD90N06S404ATMA1	PG-TO252-3-11	60	3.8	2.0 ... 4.0	90
IPD90N06S4-04	SP001028762	IPD90N06S404ATMA2	PG-TO252-3-11	60	3.8	2.0 ... 4.0	90
IPD90N06S4L-05	SP000415588	IPD90N06S4L05ATMA1	PG-TO252-3-11	60	4.6	1.2 ... 2.2	90
IPD90N06S4L-05	SP001028748	IPD90N06S4L05ATMA2	PG-TO252-3-11	60	4.6	1.2 ... 2.2	90
IPD90N06S4-05	SP000481510	IPD90N06S405ATMA1	PG-TO252-3-11	60	5.1	2.0 ... 4.0	90
IPD90N06S4-05	SP001028730	IPD90N06S405ATMA2	PG-TO252-3-11	60	5.1	2.0 ... 4.0	90
IPD90N06S4L-06	SP000415594	IPD90N06S4L06ATMA1	PG-TO252-3-11	60	6.1	1.2 ... 2.2	90
IPD90N06S4L-06	SP001028682	IPD90N06S4L06ATMA2	PG-TO252-3-11	60	6.1	1.2 ... 2.2	90
IPD90N06S4-07	SP000415586	IPD90N06S407ATMA1	PG-TO252-3-11	60	6.9	2.0 ... 4.0	90
IPD90N06S4-07	SP001028680	IPD90N06S407ATMA2	PG-TO252-3-11	60	6.9	2.0 ... 4.0	90
IPD50N06S4L-08	SP000374322	IPD50N06S4L08ATMA1	PG-TO252-3-11	60	7.9	1.2 ... 2.2	50
IPD50N06S4L-08	SP001028664	IPD50N06S4L08ATMA2	PG-TO252-3-11	60	7.9	1.2 ... 2.2	50

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

30V

BSB012N03LX3 G	SP000597846	BSB012N03LX3GXUMA1	CanPAK™ M-size	30	1.2	1.0 ... 2.2	180
BSB017N03LX3 G	SP000604468	BSB017N03LX3GXUMA1	CanPAK™ M-size	30	1.7	1.0 ... 2.2	147
BSC011N03LS	SP000799082	BSC011N03LSATMA1	SuperSO8	30	1.1	1.0 ... 2.2	100
BSC011N03LSI	SP000884574	BSC011N03LSIATMA1	SuperSO8	30	1.1	1.2 ... 2.0	100
BSC014N03LS G	SP000394677	BSC014N03LSGATMA1	SuperSO8	30	1.4	1.2 ... 2.0	100
■ BSC016N03LS G	SP000237663	BSC016N03LSGATMA1	SuperSO8	30	1.6	1.0 ... 2.2	100
BSC0901NS	SP000800248	BSC0901NSATMA1	SuperSO8	30	1.9	1.0 ... 2.2	100
BSC0901NSI	SP000819818	BSC0901NSIATMA1	SuperSO8	30	2.0	1.0 ... 2.2	100
■ BSC020N03LS G	SP000237662	BSC020N03LSGATMA1	SuperSO8	30	2.0	1.0 ... 2.2	100
▼ BSC020N03LS G	SP000959514	BSC020N03LSGATMA2	SuperSO8	30	2.0	1.0 ... 2.2	100
BSC025N03LS G	SP000269781	BSC025N03LSGATMA1	SuperSO8	30	2.5	1.0 ... 2.2	100
BSC0902NS	SP000800246	BSC0902NSATMA1	SuperSO8	30	2.6	1.0 ... 2.2	100
BSC0902NSI	SP000854380	BSC0902NSIATMA1	SuperSO8	30	2.8	1.2 ... 2.0	100
BSC030N03LS G	SP000237661	BSC030N03LSGATMA1	SuperSO8	30	3.0	1.0 ... 2.2	100
BSC034N03LS G	SP000475948	BSC034N03LSGATMA1	SuperSO8	30	3.4	1.0 ... 2.2	100
BSC0904NSI	SP000854384	BSC0904NSIATMA1	SuperSO8	30	3.7	1.0 ... 2.2	78
BSC042N03LS G	SP000302864	BSC042N03LSGATMA1	SuperSO8	30	4.2	1.0 ... 2.2	93
BSC0906NS	SP000893360	BSC0906NSATMA1	SuperSO8	30	4.5	1.0 ... 2.2	63
BSC050N03LS G	SP000269785	BSC050N03LSGATMA1	SuperSO8	30	5.0	1.0 ... 2.2	79
BSC052N03LS	SP000807602	BSC052N03LSATMA1	SuperSO8	30	5.2	1.0 ... 2.2	57
BSC057N03LS G	SP000275113	BSC057N03LSGATMA1	SuperSO8	30	5.7	1.0 ... 2.2	71
BSC072N03LD G	SP000359607	BSC072N03LDGATMA1	SuperSO8 dual	30	7.2	1.0 ... 2.2	20
BSC079N03LSC G	SP000527424	BSC079N03LSCGATMA1	SuperSO8	30	7.9	1.0 ... 2.2	50
BSC0908NS	SP000847024	BSC0908NSATMA1	SuperSO8	30	8.0	1.0 ... 2.2	49
BSC080N03LS G	SP000275114	BSC080N03LSGATMA1	SuperSO8	30	8.0	1.0 ... 2.2	52
BSC090N03LS G	SP000275115	BSC090N03LSGATMA1	SuperSO8	30	9.0	1.0 ... 2.2	47
BSC0909NS	SP000832576	BSC0909NSATMA1	SuperSO8	30	9.2	1.0 ... 2.2	44
BSC120N03LS G	SP000302848	BSC120N03LSGATMA1	SuperSO8	30	12	1.0 ... 2.2	39
BSC150N03LD G	SP000359362	BSC150N03LDGATMA1	SuperSO8 dual	30	15	1.0 ... 2.2	20
BSC0921NDI	SP000934748	BSC0921NDIATMA1	PowerStage 5x6	30	5.0/1.6	1.2 ... 2.0	40
BSC0923NDI	SP000934758	BSC0923NDIATMA1	PowerStage 5x6	30	5.0/2.8	1.2 ... 2.0	40
BSC0924NDI	SP000934750	BSC0924NDIATMA1	PowerStage 5x6	30	5.0/3.7	1.2 ... 2.0	40
BSC0925ND	SP000934752	BSC0925NDATMA1	PowerStage 5x6	30	5.0	1.2 ... 2.0	40
BSD316SN H6327	SP000917668	BSD316SNH6327XTSA1	SOT363	30	160	1.2 ... 2.0	1.4
BSF024N03LT3 G	SP000616988	BSF024N03LT3GXUMA1	CanPAK™ S-size	30	2.4	1.0 ... 2.2	106
■ BSF045N03LQ3 G	SP000597842	BSF045N03LQ3GXUMA1	CanPAK™ S-size	30	4.5	1.0 ... 2.2	63
BSF050N03LQ3 G	SP000604522	BSF050N03LQ3GXUMA1	CanPAK™ S-size	30	5.0	1.2 ... 2.2	60
▼ BSN012N03LS	SP001074740	BSN012N03LSXUSA1	Blade 3x3	30	1.2	1.2 ... 2.0	50
▼ BSN012N03LSI	SP001074742	BSN012N03LSIXUSA1	Blade 3x3	30	1.2	1.2 ... 2.0	50
▼ BSN048N03LS	SP001074746	BSN048N03LSXUSA1	Blade 3x3	30	4.8	1.2 ... 2.0	50
BSR302N	SP000257785	BSR302NL6327HTSA1	SC59	30	23	1.2 ... 2.0	3.7
BSS306N	SP000928940	BSS306NH6327XTSA1	SOT23	30	57	1.2 ... 2.0	2.3
BSS316N	SP000928948	BSS316NH6327XTSA1	SOT23	30	160	1.2 ... 2.0	1.4
BSZ019N03LS	SP000792362	BSZ019N03LSATMA1	S3O8	30	1.9	1.0 ... 2.2	40
BSZ0901NS	SP000854570	BSZ0901NSATMA1	S3O8 (fused leads)	30	2.0	1.0 ... 2.2	40
BSZ0901NSI	SP000853566	BSZ0901NSIATMA1	S3O8 (fused leads)	30	2.1	1.0 ... 2.2	40
BSZ0902NS	SP000854386	BSZ0902NSATMA1	S3O8 (fused leads)	30	2.6	1.0 ... 2.2	40
BSZ0902NSI	SP000854388	BSZ0902NSIATMA1	S3O8 (fused leads)	30	2.8	1.0 ... 2.2	40
■ BSZ035N03LS G	SP000278809	BSZ035N03LSGATMA1	S3O8	30	3.5	1.0 ... 2.2	40

SMD = Surface Mounted Device

Power Semiconductors

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

N-Channel MOSFETs

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
600V
C6 Series
 (cont'd)

◆▼	IPD60R520C6	SP001117722	IPD60R520C6ATMA1	DDPAK	600	520	2.5 ... 3.5	8.1
◆	IPD60R520C6	SP000645070	IPD60R520C6BTMA1	DDPAK	600	520	2.5 ... 3.5	8.1
◆▼	IPD60R600C6	SP001117726	IPD60R600C6ATMA1	DDPAK	600	600	2.5 ... 3.5	7.3
◆	IPD60R600C6	SP000660622	IPD60R600C6BTMA1	DDPAK	600	600	2.5 ... 3.5	7.3
◆▼	IPD60R950C6	SP001117730	IPD60R950C6ATMA1	DDPAK	600	950	2.5 ... 3.5	12.0
◆	IPD60R950C6	SP000629368	IPD60R950C6BTMA1	DDPAK	600	950	2.5 ... 3.5	12.0
◆	IPD60R1K4C6	SP000799134	IPD60R1K4C6BTMA1	DDPAK	600	1400	2.5 ... 3.5	3.2
◆	IPD60R2K0C6	SP000799132	IPD60R2K0C6BTMA1	DDPAK	600	2000	2.5 ... 3.5	2.4
◆▼	IPD60R3K3C6	SP001117718	IPD60R3K3C6ATMA1	DDPAK	600	3300	2.5 ... 3.5	1.7
◆	IPD60R3K3C6	SP000799130	IPD60R3K3C6BTMA1	DDPAK	600	3300	2.5 ... 3.5	1.7
◆	IPI60R190C6	SP000660618	IPI60R190C6XKSA1	I ² PAK	600	190	2.5 ... 3.5	20.2
◆	IPI60R280C6	SP000687554	IPI60R280C6XKSA1	I ² PAK	600	280	2.5 ... 3.5	10.6
◆	IPI60R380C6	SP000660630	IPI60R380C6XKSA1	I ² PAK	600	380	2.5 ... 3.5	10.6
◆	IPP60R074C6	SP000898652	IPP60R074C6XKSA1	TO-220	600	74	2.5 ... 3.5	57.7
◆	IPP60R099C6	SP000687556	IPP60R099C6XKSA1	TO-220	600	99	2.5 ... 3.5	38.0
◆	IPP60R125C6	SP000685844	IPP60R125C6XKSA1	TO-220	600	125	2.5 ... 3.5	30.0
◆	IPP60R160C6	SP000652796	IPP60R160C6XKSA1	TO-220	600	160	2.5 ... 3.5	23.8
◆	IPP60R190C6	SP000621158	IPP60R190C6XKSA1	TO-220	600	190	2.5 ... 3.5	20.2
◆	IPP60R280C6	SP000645028	IPP60R280C6XKSA1	TO-220	600	280	2.5 ... 3.5	13.8
◆	IPP60R380C6	SP000645062	IPP60R380C6XKSA1	TO-220	600	380	2.5 ... 3.5	10.6
◆	IPP60R520C6	SP000645068	IPP60R520C6XKSA1	TO-220	600	520	2.5 ... 3.5	8.1
◆	IPP60R600C6	SP000645074	IPP60R600C6XKSA1	TO-220	600	600	2.5 ... 3.5	7.3
◆	IPP60R950C6	SP000629364	IPP60R950C6XKSA1	TO-220	600	950	2.5 ... 3.5	4.4
◆	IPP60R1K4C6	SP000931536	IPP60R1K4C6XKSA1	TO-220	600	1400	2.5 ... 3.5	3.2
◆	IPW60R041C6	SP000718886	IPW60R041C6FKSA1	TO-247	600	41	2.5 ... 3.5	77.5
◆	IPW60R070C6	SP000645060	IPW60R070C6FKSA1	TO-247	600	70	2.5 ... 3.5	53.0
◆	IPW60R099C6	SP000641908	IPW60R099C6FKSA1	TO-247	600	99	2.5 ... 3.5	38.0
◆	IPW60R125C6	SP000641912	IPW60R125C6FKSA1	TO-247	600	125	2.5 ... 3.5	30.0
◆	IPW60R160C6	SP000652798	IPW60R160C6FKSA1	TO-247	600	160	2.5 ... 3.5	23.8
◆	IPW60R190C6	SP000621160	IPW60R190C6FKSA1	TO-247	600	190	2.5 ... 3.5	20.2
◆	IPW60R280C6	SP000645032	IPW60R280C6FKSA1	TO-247	600	280	2.5 ... 3.5	13.8
◆	IPI60R600C6	SP000931534	IPI60R600C6BKMA1	IPAK	600	600	2.5 ... 3.5	7.3
◆	IPI60R950C6	SP000931532	IPI60R950C6BKMA1	IPAK	600	950	2.5 ... 3.5	4.4
◆	IPI60R1K4C6	SP000931530	IPI60R1K4C6BKMA1	IPAK	600	1400	2.5 ... 3.5	3.2
◆	IPI60R2K0C6	SP000931528	IPI60R2K0C6BKMA1	IPAK	600	2000	2.5 ... 3.5	2.4

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

650V C6 Series (cont'd)

◆ IPP65R190C6	SP000849360	IPP65R190C6XKSA1	TO-220	650	190	2.5 ... 3.5	20.2
◆ IPP65R280C6	SP000785058	IPP65R280C6XKSA1	TO-220	650	280	2.5 ... 3.5	13.8
◆▼ IPP65R380C6	SP000785082	IPP65R380C6XKSA1	TO-220	650	380	2.5 ... 3.5	10.6
◆ IPP65R600C6	SP000661310	IPP65R600C6XKSA1	TO-220	650	600	2.5 ... 3.5	7.3
◆ IPS65R1K4C6	SP000991120	IPS65R1K4C6AKMA1	IPAK SL	650	1400	2.5 ... 3.5	3.2
◆ IPS65R950C6	SP000991122	IPS65R950C6AKMA1	IPAK SL	650	950	2.5 ... 3.5	4.5
◆ IPW65R037C6	SP000756284	IPW65R037C6FKSA1	TO-247	650	37	2.5 ... 3.5	83.2
◆ IPW65R070C6	SP000745034	IPW65R070C6FKSA1	TO-247	650	70	2.5 ... 3.5	53.5
◆ IPW65R099C6	SP000896396	IPW65R099C6FKSA1	TO-247	650	115	2.5 ... 3.5	38.0
◆ IPW65R190C6	SP000863902	IPW65R190C6FKSA1	TO-247	600	190	2.5 ... 3.5	20.2
◆ IPW65R280C6	SP000785060	IPW65R280C6FKSA1	TO-247	600	280	2.5 ... 3.5	13.8

650V C7 Series

◆▼ IPA65R045C7	SP001080092	IPA65R045C7XKSA1	TO-220 FullPAK	650	45	3.0 ... 4.0	46.0
◆▼ IPA65R065C7	SP001080114	IPA65R065C7XKSA1	TO-220 FullPAK	650	65	3.0 ... 4.0	33.0
◆▼ IPA65R095C7	SP001080126	IPA65R095C7XKSA1	TO-220 FullPAK	650	95	3.0 ... 4.0	24.0
◆▼ IPA65R125C7	SP001080136	IPA65R125C7XKSA1	TO-220 FullPAK	650	125	3.0 ... 4.0	18.0
◆▼ IPA65R190C7	SP001080140	IPA65R190C7XKSA1	TO-220 FullPAK	650	190	3.0 ... 4.0	13.0
◆▼ IPA65R225C7	SP001080144	IPA65R225C7XKSA1	TO-220 FullPAK	650	225	3.0 ... 4.0	11.0
◆▼ IPB65R045C7	SP000929420	IPB65R045C7ATMA1	D ² PAK	650	45	3.0 ... 4.0	46.0
◆▼ IPB65R065C7	SP001080110	IPB65R065C7ATMA1	D ² PAK	650	65	3.0 ... 4.0	33.0
◆▼ IPB65R095C7	SP001080124	IPB65R095C7ATMA1	D ² PAK	650	95	3.0 ... 4.0	24.0
◆▼ IPB65R125C7	SP001080134	IPB65R125C7ATMA1	D ² PAK	650	125	3.0 ... 4.0	18.0
◆▼ IPB65R190C7	SP000929424	IPB65R190C7ATMA1	D ² PAK	650	190	3.0 ... 4.0	13.0
◆▼ IPB65R225C7	SP000929480	IPB65R225C7ATMA1	D ² PAK	650	225	3.0 ... 4.0	11.0
◆▼ IPD65R190C7	SP000928648	IPD65R190C7ATMA1	DPAK	650	190	3.0 ... 4.0	13.0
◆▼ IPD65R225C7	SP000929430	IPD65R225C7ATMA1	DPAK	650	225	3.0 ... 4.0	11.0
◆▼ IPL65R130C7	SP001032724	IPL65R130C7AUMA1	ThinPAK 8x8	650	130	3.0 ... 4.0	15.0
◆▼ IPL65R230C7	SP001032728	IPL65R230C7AUMA1	ThinPAK 8x8	650	230	3.0 ... 4.0	10.0
◆▼ IPP65R045C7	SP000929422	IPP65R045C7XKSA1	TO-220	650	45	3.0 ... 4.0	46.0
◆▼ IPP65R065C7	SP001080100	IPP65R065C7XKSA1	TO-220	650	65	3.0 ... 4.0	33.0
◆▼ IPP65R095C7	SP001080122	IPP65R095C7XKSA1	TO-220	650	95	3.0 ... 4.0	24.0
◆▼ IPP65R125C7	SP001080132	IPP65R125C7XKSA1	TO-220	650	125	3.0 ... 4.0	18.0
◆▼ IPP65R190C7	SP000929426	IPP65R190C7FKSA1	TO-220	650	190	3.0 ... 4.0	13.0
◆▼ IPP65R225C7	SP000929432	IPP65R225C7XKSA1	TO-220	650	225	3.0 ... 4.0	11.0
◆▼ IPW65R019C7	SP000928646	IPW65R019C7FKSA1	TO-247	650	19	3.0 ... 4.0	75.0
◆▼ IPW65R045C7	SP000929412	IPW65R045C7FKSA1	TO-247	650	45	3.0 ... 4.0	46.0
◆▼ IPW65R065C7	SP001080116	IPW65R065C7XKSA1	TO-247	650	65	3.0 ... 4.0	33.0
◆▼ IPW65R095C7	SP001080128	IPW65R095C7XKSA1	TO-247	650	95	3.0 ... 4.0	24.0
◆▼ IPW65R125C7	SP001080138	IPW65R125C7XKSA1	TO-247	650	125	3.0 ... 4.0	18.0
◆▼ IPW65R190C7	SP001080142	IPW65R190C7XKSA1	TO-247	650	190	3.0 ... 4.0	13.0
◆▼ IPZ65R019C7	SP001024002	IPZ65R019C7XKSA1	TO-247-4	650	19	3.0 ... 4.0	75.0
◆▼ IPZ65R045C7	SP001024004	IPZ65R045C7XKSA1	TO-247-4	650	45	3.0 ... 4.0	46.0
◆▼ IPZ65R065C7	SP001080120	IPZ65R065C7XKSA1	TO-247-4	650	65	3.0 ... 4.0	33.0
◆▼ IPZ65R095C7	SP001080130	IPZ65R095C7XKSA1	TO-247-4	650	95	3.0 ... 4.0	24.0

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

650V E6 Series

◆ IPA65R190E6	SP000863904	IPA65R190E6XKSA1	TO-220 FullPAK	650	190	2.5 ... 3.5	20.2
◆ IPA65R280E6	SP000795276	IPA65R280E6XKSA1	TO-220 FullPAK	650	280	2.5 ... 3.5	13.8
◆ IPA65R380E6	SP000795282	IPA65R380E6XKSA1	TO-220 FullPAK	650	380	2.5 ... 3.5	10.6
◆ IPA65R600E6	SP000799140	IPA65R600E6XKSA1	TO-220 FullPAK	650	600	2.5 ... 3.5	7.3
◆▼ IPB65R280E6	SP000795274	IPB65R280E6ATMA1	D ² PAK	650	280	2.5 ... 3.5	13.8
◆ IPD65R250E6	SP000898656	IPD65R250E6XTMA1	DPAK	650	250	2.5 ... 3.5	16.1
◆▼ IPD65R380E6	SP001117736	IPD65R380E6ATMA1	DPAK	650	380	2.5 ... 3.5	10.6
◆ IPD65R380E6	SP000795278	IPD65R380E6BTMA1	DPAK	650	380	2.5 ... 3.5	10.6
◆▼ IPD65R600E6	SP001117096	IPD65R600E6ATMA1	DPAK	650	600	2.5 ... 3.5	7.3
◆ IPD65R600E6	SP000800216	IPD65R600E6BTMA1	DPAK	650	600	2.5 ... 3.5	7.3
◆▼ IPI65R280E6	SP000795270	IPI65R280E6XKSA1	I ² PAK	650	280	2.5 ... 3.5	13.8
◆ IPP65R190E6	SP000849876	IPP65R190E6XKSA1	TO-220	650	190	2.5 ... 3.5	20.2
◆ IPP65R280E6	SP000795268	IPP65R280E6XKSA1	TO-220	650	280	2.5 ... 3.5	13.8
◆▼ IPP65R380E6	SP000795280	IPP65R380E6XKSA1	TO-220	650	380	2.5 ... 3.5	10.6
◆ IPP65R600E6	SP000850500	IPP65R600E6XKSA1	TO-220	650	600	2.5 ... 3.5	7.3
◆ IPW65R190E6	SP000863906	IPW65R190E6FKSA1	TO-247	650	190	2.5 ... 3.5	20.2
◆ IPW65R280E6	SP000795272	IPW65R280E6FKSA1	TO-247	650	280	2.5 ... 3.5	13.8

800V

BSP300	SP001058720	BSP300H6327XUSA1	SOT223	800	20000	2.1 ... 4.0	0.19
--------	-------------	------------------	--------	-----	-------	-------------	------

800V C3 Series

◆ SPA17N80C3	SP000216353	SPA17N80C3XKSA1	TO-220 FullPAK	800	290	2.1 ... 3.9	17
◆ SPA11N80C3	SP000216320	SPA11N80C3XKSA1	TO-220 FullPAK	800	450	2.1 ... 3.9	11
◆ SPA08N80C3	SP000216310	SPA08N80C3XKSA1	TO-220 FullPAK	800	650	2.1 ... 3.9	8.0
◆ SPA06N80C3	SP000216302	SPA06N80C3XKSA1	TO-220 FullPAK	800	900	2.1 ... 3.9	6.0
◆ SPA04N80C3	SP000216300	SPA04N80C3XKSA1	TO-220 FullPAK	800	1300	2.1 ... 3.9	4.0
◆ SPA02N80C3	SP000216295	SPA02N80C3XKSA1	TO-220 FullPAK	800	2700	2.1 ... 3.9	2.0
◆ SPB17N80C3	SP000013370	SPB17N80C3ATMA1	D ² PAK	800	290	2.1 ... 3.9	17.0
◆▼ SPD06N80C3	SP001117772	SPD06N80C3ATMA1	DPAK	800	900	2.1 ... 3.9	6.0
◆ SPD06N80C3	SP000318350	SPD06N80C3BTMA1	DPAK	800	900	2.1 ... 3.9	6.0
◆▼ SPD04N80C3	SP001117768	SPD04N80C3ATMA1	DPAK	800	1300	2.1 ... 3.9	4.0
◆ SPD04N80C3	SP000315410	SPD04N80C3BTMA1	DPAK	800	1300	2.1 ... 3.9	4.0
◆▼ SPD02N80C3	SP001117754	SPD02N80C3ATMA1	DPAK	800	2700	2.1 ... 3.9	2.0
◆ SPD02N80C3	SP000315409	SPD02N80C3BTMA1	DPAK	800	2700	2.1 ... 3.9	2.0
◆ SPI08N80C3	SP000683148	SPI08N80C3XKSA1	I ² PAK	800	650	2.1 ... 3.9	8.0
◆ SPP17N80C3	SP000683164	SPP17N80C3XKSA1	TO-220	800	290	2.1 ... 3.9	17.0
◆ SPP11N80C3	SP000683158	SPP11N80C3XKSA1	TO-220	800	450	2.1 ... 3.9	11.0
◆ SPP08N80C3	SP000683156	SPP08N80C3XKSA1	TO-220	800	650	2.1 ... 3.9	8.0
◆ SPP06N80C3	SP000683154	SPP06N80C3XKSA1	TO-220	800	900	2.1 ... 3.9	6.0
◆ SPP04N80C3	SP000683152	SPP04N80C3XKSA1	TO-220	800	1300	2.1 ... 3.9	4.0
◆ SPP02N80C3	SP000683150	SPP02N80C3XKSA1	TO-220	800	2700	2.1 ... 3.9	2.0
◆ SPW55N80C3	SP000849356	SPW55N80C3FKSA1	TO-247	800	85	2.1 ... 3.9	54.9
◆ SPW17N80C3	SP000013369	SPW17N80C3FKSA1	TO-247	800	290	2.1 ... 3.9	17.0
◆ SPW11N80C3	SP000013703	SPW11N80C3FKSA1	TO-247	800	450	2.1 ... 3.9	11.0

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_{DS} V	I_F A	Q_{typ} nC	$I_{F,SM}$ at $T_j = 25^\circ\text{C}$ A

Power Diodes
Silicon Carbide Schottky Diodes
Fifth Generation
650V

IDH02G65C5	SP000854596	IDH02G65C5XKSA1	TO-220 real 2pin	650	2	4	23
IDH03G65C5	SP000925196	IDH03G65C5XKSA1	TO-220 real 2pin	650	3	5	31
IDH04G65C5	SP000925198	IDH04G65C5XKSA1	TO-220 real 2pin	650	4	7	38
IDH05G65C5	SP000925200	IDH05G65C5XKSA1	TO-220 real 2pin	650	5	8	46
IDH06G65C5	SP000925202	IDH06G65C5XKSA1	TO-220 real 2pin	650	6	10	54
IDH08G65C5	SP000925204	IDH08G65C5XKSA1	TO-220 real 2pin	650	8	13	68
IDH09G65C5	SP000925206	IDH09G65C5XKSA1	TO-220 real 2pin	650	9	14	75
IDH10G65C5	SP000925208	IDH10G65C5XKSA1	TO-220 real 2pin	650	10	15	82
IDH12G65C5	SP000821244	IDH12G65C5XKSA1	TO-220 real 2pin	650	12	18	97
IDH16G65C5	SP000925210	IDH16G65C5XKSA1	TO-220 real 2pin	650	16	23	124
IDH20G65C5	SP000925212	IDH20G65C5XKSA1	TO-220 real 2pin	650	20	29	142
▼ IDK02G65C5	SP000930840	IDK02G65C5XTMA1	D ² PAK real 2pin	650	2	4	23
▼ IDK03G65C5	SP000930842	IDK03G65C5XTMA1	D ² PAK real 2pin	650	3	5	31
▼ IDK04G65C5	SP000930844	IDK04G65C5XTMA1	D ² PAK real 2pin	650	4	7	38
▼ IDK05G65C5	SP000930846	IDK05G65C5XTMA1	D ² PAK real 2pin	650	5	8	46
▼ IDK06G65C5	SP000930848	IDK06G65C5XTMA1	D ² PAK real 2pin	650	6	10	54
▼ IDK08G65C5	SP000930850	IDK08G65C5XTMA1	D ² PAK real 2pin	650	8	13	68
▼ IDK09G65C5	SP000930852	IDK09G65C5XTMA1	D ² PAK real 2pin	650	9	14	75
▼ IDK10G65C5	SP000930854	IDK10G65C5XTMA1	D ² PAK real 2pin	650	10	15	82
▼ IDK12G65C5	SP000930856	IDK12G65C5XTMA1	D ² PAK real 2pin	650	12	18	97
▼ IDL02G65C5	SP000941306	IDL02G65C5XUMA1	ThinPAK 8x8	650	2	4	21
▼ IDL04G65C5	SP000941308	IDL04G65C5XUMA1	ThinPAK 8x8	650	4	7	29
▼ IDL06G65C5	SP000941310	IDL06G65C5XUMA1	ThinPAK 8x8	650	6	10	36
▼ IDL08G65C5	SP000941312	IDL08G65C5XUMA1	ThinPAK 8x8	650	8	13	43
▼ IDL10G65C5	SP000941314	IDL10G65C5XUMA1	ThinPAK 8x8	650	10	15	50
▼ IDL12G65C5	SP000941316	IDL12G65C5XUMA1	ThinPAK 8x8	650	12	18	57
IDW10G65C5	SP000937038	IDW10G65C5FKSA1	TO-247	650	10	15	58
IDW12G65C5	SP000937044	IDW12G65C5FKSA1	TO-247	650	12	18	71
IDW16G65C5	SP000937048	IDW16G65C5FKSA1	TO-247	650	16	23	95
IDW20G65C5	SP000937050	IDW20G65C5FKSA1	TO-247	650	20	29	103
IDW30G65C5	SP000937052	IDW30G65C5FKSA1	TO-247	650	30	42	165
IDW40G65C5	SP000969582	IDW40G65C5FKSA1	TO-247	650	40	55	182

SiC JFET & Direct Drive Technology
1200V

▼ IJW120R100T1	SP000871656	IJW120R100T1FKSA1	TO-247	1200	26	190	78
▼ IJW120R070T1	SP000871652	IJW120R070T1FKSA1	TO-247	1200	35	238	114

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data		
				V_{DS}	$I_{L-ISO-Norm}$	$R_{DS(on)}$
				V	A	mT

Smart Low-Side Switches

HITFET™ for automotive applications

BSP75N	SP000305171	BSP75NHUMA1	PG-SOT223-4	> 60	0.7	550
BSP76 E6433	SP000379611	BSP76E6433HUMA1	PG-SOT223-4	> 42	1.4	200
BSP77 E6433	SP000383400	BSP77E6433HUMA1	PG-SOT223-4	> 42	2.17	100
BSP78	SP000292892	BSP78HUMA1	PG-SOT223-4	> 42	3.0	50
BTS117	SP001003104	BTS117BKSA1	PG-TO220-3-1	> 60	3.5	100
BTS117TC	SP000668258	BTS117TCBUMA1	PG-TO263-3-2	> 60	3.5	100
BTS118D	SP000506212	BTS118DATMA1	PG-TO252-3-11	> 42	2.4	100
BTS133	SP001003102	BTS133BKSA1	PG-TO220-3-1	> 60	7.0	50
BTS133TC	SP000668256	BTS133TCBUMA1	PG-TO263-3-2	> 60	7.0	50
BTS134D	SP000506208	BTS134DATMA1	PG-TO252-3-11	> 42	3.5	50
BTS141	SP001003100	BTS141BKSA1	PG-TO220-3-1	> 60	12	28
BTS141TC	SP000668254	BTS141TCBUMA1	PG-TO263-3-2	> 60	12	28
BTS142D	SP000506220	BTS142DATMA1	PG-TO252-3-11	> 42	4.6	28
BTS3028SDL	SP000438722	BTS3028SDLATMA1	PG-TO252-3-11	60	5.0	28 (latch)
BTS3028SDR	SP000438724	BTS3028SDRATMA1	PG-TO252-3-11	60	5.0	28 (restart)
BTS3046SDL	SP000438726	BTS3046SDLATMA1	PG-TO252-3-11	60	3.6	46 (latch)
BTS3104SDR	SP000438732	BTS3104SDRATMA1	PG-TO252-3-11	60	3.6	46 (restart)
BTS3104SDL	SP000438730	BTS3104SDLATMA1	PG-TO252-3-11	60	2.0	104 (latch)
BTS3046SDR	SP000438728	BTS3046SDRATMA1	PG-TO252-3-11	60	2.0	104 (restart)
BTS3110N	SP000292896	BTS3110NHUMA1	PG-SOT223-4	> 42	1.4	200
BTS3118D	SP000506216	BTS3118DATMA1	PG-TO252-3-11	> 42	2.4	100
BTS3118N	SP000305173	BTS3118NHUMA1	PG-SOT223-4	> 42	2.4	100
BTS3134D	SP000506210	BTS3134DATMA1	PG-TO252-3-1	> 42	3.5	50
BTS3134N	SP000305174	BTS3134NHUMA1	PG-SOT223-4	> 42	3.5	50
BTS3142D	SP000506218	BTS3142DATMA1	PG-TO252-3-11	> 42	4.6	28
BTS3160D	SP000305175	BTS3160DAUMA1	PG-TO252-5-3	> 40	7.8	10
BTS3205G	SP000237784	BTS3205GXUMA1	PG-DSO-8-24	> 42	0.35	1900
BTS3205N	SP000438116	BTS3205NHUSA1	PG-SOT223-4	> 42	0.35	1900
BTS3207N	SP000294550	BTS3207NHUMA1	PG-SOT223-4	> 42	0.64	500
BTS3256D	SP000315628	BTS3256DAUMA1	PG-TO252-5-3	40	7.5	10
BTS3405G	SP000237783	BTS3405GXUMA1	PG-DSO-8-25	> 42	0.35	1900
BTS3408G	SP001027114	BTS3408GXUMA2	PG-DSO-8-36	> 60	0.55	550
BTS3800SL	SP000732200	BTS3800SLHTSA1	PG-SCT595-5	> 41	0.35	1600
BTS3410G (Dual)	SP000305178	BTS3410GXUMA1	PG-DSO-8-3	> 42	1.3	2 x 200

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
------	---------------	-----------------------	---------	-------------

Power Management ICs**Resonant Mode Controller**

▼ ICE1HS01G-1	SP001077176	ICE1HS01G1XUMA1	SO-8	Half-bridge LLC resonant controller with two gate outputs, 600-kHz switching frequency, minimum number of external components, high accuracy oscillator, tape & reel
ICE2HS01G	SP000793084	ICE2HS01GXUMA1	SO-20	High performance mode controller for half-bridge LLC resonant controller with four gate outputs and synchronous rectification drives, 30-kHz - 1-MHz switching frequency, tape & reel

Fan Speed Controller IC

TDA21801	SP000697956	TDA21801XUMA1	SO-8	Fan speed controller for SMPS, adjustable fan speed, fan On/OFF, over-temperature protection (OTP), tape & reel
----------	-------------	---------------	------	---

Integrated Power Stages and DrMOS

TDA21220	SP000746644	TDA21220AUMA1	PG-IQFN-40	High-performance DrMOS, power MOSFET and driver in one package, max. peak current of 50A, input voltage range + 4.5V to +16V, tape & reel
▼ TDA21310	SP000931598	TDA21310XUSA1	LG-UIQFN-32	High-performance DrMOS, power MOSFET and driver in one package, max. peak current of 40A, tape & reel

MOSFET Driver IC

■ PX3515BDDG-R4	SP000669876	PX3515BDDGR4XTMA1	PG-TDSON-10	Drives two/four n-channel MOSFETs (single/dual driver), high tage 12V or 5V, tape & reel
■ PX3516ADDG-R4	SP000704414	PX3516ADDGR4XTMA1	PG-TDSON-10	Dual MOSFET driver for synchronous rectified bridge converters, adjust. high-side and low-side MOSFET gate drive voltages for optimal efficiency, 50A, tape & reel
▼ PX3517	SP000923218	PX3517FTMA1	PG-TDSON-10	High speed driver for Dual MOSFETs, adjust. high-side and low-side MOSFET gate drive voltages for optimal efficiency, capability to drive MOSFETs at 50A continuous current per phase, tape & reel
▼ PX3519	SP000985712	PX3519XTMA1	PG-VDSON-8	High speed driver for Dual MOSFETs, adjust. high-side and low-side MOSFET gate drive voltages for optimal efficiency, capability to drive MOSFETs at 50A per phase, tape & reel

Power Audio ICs

SAB2402EN1	SP000963776	SAB2402EN1XUMA2	PG-VQFN-68	High performance energy efficient digital and analog input high dynamic range open loop Class-D speaker amplifiers, input sampling frequency 48-kHz I2S/ 48-kHz SPDIF, tape & reel
SAB2403EN1	SP000962100	SAB2403EN1XUMA1	PG-VQFN-68	High performance energy efficient digital and analog input high dynamic range open loop Class-D speaker amplifiers, input sampling frequency 192-kHz I2S/ 96-kHz SPDIF, tape & reel

SMD = Surface Mounted Device

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

RF MMICs

Broadband and Driver Amplifiers

BGA416	3k*	SP000013607	BGA416E6327HTSA1	SOT143	6.0	20	1.2	17	900
BGA420	3k*	SP000753504	BGA420H6327XTSA1	SOT343	6.0	15	2.2	17	1000
BGA427	3k*	SP000753506	BGA427H6327XTSA1	SOT343	6.0	25	2.2	18.5	1800
BGA612	3k*	SP000753510	BGA612H6327XTSA1	SOT343	2.8	80	2.0	17.5	1000
BGA614	3k*	SP000753512	BGA614H6327XTSA1	SOT343	2.9	80	2.0	19	1000
BGA616	3k*	SP000753514	BGA616H6327XTSA1	SOT343	4.5	80	2.5	19	1000

Low Noise Amplifiers
GPS LNA

▼ BGA231N7	7.5k*	SP001069624	BGA231N7E6327XTSA2	TSNP-7-1	3.6	20	0.75	16	1575
▼ BGA231N7	6k*	SP001067512	BGA231N7E6330XTSA1	TSNP-7-1	3.6	20	0.75	16	1575
BGA428	3k*	SP000753508	BGA428H6327XTSA1	SOT363	4.0	12	1.4	20	1800
BGA461	7.5k*	SP000463628	BGA461E6327XTSA1	TSLP-7-1	3.6	10	1.0	19	1575
BGA622L7	7.5k*	SP000017535	BGA622L7E6327XTSA1	TSLP-7-1	3.5	10	1.1	18	2140
▼ BGA715N7	7.5k*	SP001071580	BGA715N7E6327XTSA2	TSNP-7-1	3.6	10	0.75	20	1575
BGA725L6	15k*	SP000942752	BGA725L6E6327FTSA1	TSLP-6-2	3.6	20	0.65	19	1575
▼ BGA824N6	15k*	SP001079364	BGA824N6E6327XTSA1	TSNP-6-2	3.9	16	0.55	17	-
▼ BGA825L6S	15k*	SP001012810	BGA825L6SE6327XTSA1	TSLP-6-3	3.6	20	0.6	17	1575
BGA915N7	7.5k*	SP000849368	BGA915N7E6327XTMA1	TSNP-7-6	3.6	20	0.7	15.5	1575
BGA925L6	15k*	SP000902116	BGA925L6E6327XTSA1	TSLP-6-2	3.6	20	0.65	15.8	1575
BGM1032N7	3k*	SP000884092	BGM1032N7E6327XUSA1	TSNP-7-10	3.6	25	1.65	14.8	1575
BGM1033N7	3k*	SP000892662	BGM1033N7E6327XUSA1	TSNP-7-10	3.6	25	1.65	14.8	1575
BGM1034N7	3k*	SP000906264	BGM1034N7E6327XUSA1	TSNP-7-10	3.6	25	1.7	17	1575
▼ BGM1043N7	3k*	SP000974632	BGM1043N7E6327XUSA1	TSNP-7-10	3.6	25	1.5	17	1575

Mobile TV LNA

BGA728L7	7.5k*	SP000409848	BGA728L7E6327XTSA1	TSLP-7-1	3.6	20	1.3	15.75	470
----------	-------	-------------	--------------------	----------	-----	----	-----	-------	-----

WLAN/WiMax LNA

BGA622	3k*	SP000753516	BGA622H6820XTSA1	SOT343	3.5	10	1.0	14.8	1575
--------	-----	-------------	------------------	--------	-----	----	-----	------	------

* 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
-------	-----	-------------	-----------------	--------	----	----	----

7-Line ESD and EMI Interface Protection Device

▼ BGF148	7.5k*	SP001033192	BGF148E6327XTSA1	TSNP-14-2	6.5	n.a.	±15
----------	-------	-------------	------------------	-----------	-----	------	-----

* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
------	---------------	-----------------------	---------	-------------

Switch Mode and Linear LED Drivers for Automotive Lighting Applications

Basic LED Driver ICs

▼ TLD1121EL	SP000809166	TLD1121ELXUMA1	PG-SSOP-14	Basic LED driver, high side current source, 1 input-, 1 output channel, drive 3 red LEDs with output current up to 180mA, maximum output load current up to 360 mA, OL & SC detection, tape & reel
▼ TLD1124EL	SP001092708	TLD1124ELXUMA1	PG-SSOP-14	Basic LED driver, high side current source, 1 input-, 1 output channel, drive 3 red LEDs with output current up to 180mA, maximum output load current up to 360 mA, OL & SC detection, DEN, tape & reel
▼ TLD1125EL	SP000809220	TLD1125ELXUMA1	PG-SSOP-14	Basic LED driver, high side current source, 1 input-, 1 output channel, drive 3 red LEDs with output current up to 180mA, maximum output load current up to 360 mA, OL & SC detection, PWMI, tape & reel
▼ TLD1313EL	SP000809208	TLD1313ELXUMA1	PG-SSOP-14	Basic LED driver, high side current source, 1 input-, 3 output channel, drive 3 red LEDs with output current up to 60mA, maximum output load current up to 120 mA, OL & SC with double fault detection, tape & reel
▼ TLD1314EL	SP001092706	TLD1314ELXUMA1	PG-SSOP-14	Basic LED driver, high side current source, 1 input-, 3 output channel, drive 3 red LEDs with output current up to 60mA, maximum output load current up to 120 mA, OL & SC detection, DEN, tape & reel
▼ TLD2311EL	SP000809216	TLD2311ELXUMA1	PG-SSOP-14	Basic LED driver, high side current source, 3 input-, 3 output channel, drive 3 red LEDs with output current up to 60mA, maximum output load current up to 120 mA, OL & SC detection, tape & reel
▼ TLD2314EL	SP001092710	TLD2314ELXUMA1	PG-SSOP-14	Basic LED driver, high side current source, 3 input-, 3 output channel, drive 3 red LEDs with output current up to 60mA, maximum output load current up to 120 mA, OL & SC detection, DEN, tape & reel

Linear LED Driver IC

TLE4241GM	SP000410436	TLE4241GMFUMA1	PG-DSO-8-9	Lowdrop LED driver, with adjustable current output (8/65V), Inhibit, tape & reel
■ TLE4242G	SP000299340	TLE4242GATMA1	PG-TO263-7-1	Lowdrop LED driver, with adjustable current output up to 500mA, Inhibit, tape & reel
▼ TLE4242G	SP000977146	TLE4242GATMA2	PG-TO263-7-1	Lowdrop LED driver, with adjustable current output up to 500mA, 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 2.5A load current using external transistors, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
------	---------------	-----------------------	---------	-------------

Embedded Security

OPTIGA™ Trust Family

◆ SLS10ERE USON 3	SP001094082	SLS10EREUSON3XTMA1	PG-USON-3-1	Turn-key authentication IC, strong asymmetric cryptography with ECC 163 bit key length, turn-key solution including host side software for easy integration, 3.5-kbit user NVM
-------------------	-------------	--------------------	-------------	--

◆ For complete Chip Card ICs product portfolio please visit: www.infineon.com/security

SMD = Surface Mounted Device

Summary of Types

Type	Ordering Code	Orderable Part Number	Page	Type	Ordering Code	Orderable Part Number	Page
IDP09E120	SP000683022	IDP09E120XKSA1	127	IFX2931G V50	SP000431776	IFX2931GV50XUMA1	155
IDP12E120	SP000712390	IDP12E120XKSA1	127	IFX4949SJ	SP000663314	IFX4949SJXUMA1	157
IDP15E60	SP000683024	IDP15E60XKSA1	127	IFX52001EJ	SP000091866	IFX52001EJXUMA1	157
IDP15E65D1	SP001015380	IDP15E65D1XKSA1	127	IFX54441EJ V33	SP000953844	IFX54441EJV33XUMA1	157
IDP15E65D2	SP001005456	IDP15E65D2XKSA1	127	IFX54441EJ V50	SP000953834	IFX54441EJV50XUMA1	157
IDP18E120	SP000683026	IDP18E120XKSA1	127	IFX54441EJV	SP000953854	IFX54441EJVXUMA1	157
IDP23E60	SP000683028	IDP23E60XKSA1	127	IFX7805ABTC	SP000929566	IFX7805ABTCATMA1	156
IDP30E120	SP000683030	IDP30E120XKSA1	127	IFX7805ABTF	SP000929570	IFX7805ABTFATMA1	156
IDP30E60	SP000683032	IDP30E60XKSA1	127	IFX7805ABTS	SP000929572	IFX7805ABTSAKSA1	156
IDP40E65D2	SP001008324	IDP40E65D2XKSA1	127	IFX78M05ABTF	SP000929586	IFX78M05ABTFATMA1	156
IDP45E60	SP000683034	IDP45E60XKSA1	127	IFX80471 V50	SP000858404	IFX80471SKV50XUMA1	155
IDV08E65D2	SP000994148	IDV08E65D2XKSA1	127	IFX80471SKV	SP000858402	IFX80471SKVXUMA1	155
IDV15E65D2	SP001005460	IDV15E65D2XKSA1	127	IFX81171ME V33	SP000357831	IFX8117MEV33HTMA1	156
IDV30E60C	SP000844186	IDV30E60CXKSA1	127	IFX81171ME V50	SP000357832	IFX8117MEV50HTMA1	156
IDW100E60	SP000227825	IDW100E60FKSA1	127	IFX81171MEV	SP000357833	IFX8117MEVHTMA1	156
IDW10G65C5	SP000937038	IDW10G65C5FKSA1	129	IFX81481ELV	SP001159760	IFX81481ELVXUMA1	155
IDW10S120	SP000919522	IDW10S120FKSA1	128	IFX90121EL V50	SP001118296	IFX90121ELV50XUMA1	155
IDW12G65C5	SP000937044	IDW12G65C5FKSA1	129	IFX9104EJ V33	SP000660594	IFX91041EJV33XUMA1	155
IDW15E65D2	SP001005464	IDW15E65D2FKSA1	127	IFX9104EJ V50	SP000660596	IFX91041EJV50XUMA1	155
IDW15S120	SP000919536	IDW15S120FKSA1	128	IFX9104EJV	SP000619696	IFX91041EJVXUMA1	155
IDW16G65C5	SP000937048	IDW16G65C5FKSA1	129	IGA03N120H2	SP000215371	IGA03N120H2XKSA1	120
IDW20G65C5	SP000937050	IDW20G65C5FKSA1	129	IGA30N60H3	SP000853272	IGA30N60H3XKSA1	121
IDW20S120	SP000919530	IDW20S120FKSA1	128	IGB01N120H2	SP000014614	IGB01N120H2ATMA1	120
IDW30E60	SP000916104	IDW30E60FKSA1	127	IGB03N120H2	SP000014616	IGB03N120H2ATMA1	120
IDW30E65D1	SP001015412	IDW30E65D1FKSA1	127	IGB10N60T	SP000456678	IGB10N60TATMA1	123
IDW30G65C5	SP000937052	IDW30G65C5FKSA1	129	IGB15N60T	SP000054921	IGB15N60TATMA1	123
IDW30S120	SP000919538	IDW30S120FKSA1	128	IGB20N60H3	SP000852232	IGB20N60H3ATMA1	121
IDW40E65D1	SP001015382	IDW40E65D1FKSA1	127	IGB30N60H3	SP000852240	IGB30N60H3ATMA1	121
IDW40E65D2	SP001005474	IDW40E65D2FKSA1	127	IGB30N60T	SP000095765	IGB30N60TATMA1	123
IDW40G65C5	SP000969582	IDW40G65C5FKSA1	129	IGB50N60T	SP000054922	IGB50N60TATMA1	123
IDW50E60	SP000919402	IDW50E60FKSA1	127	IGD01N120H2	SP000014523	IGD01N120H2BUMA1	120
IDW75E60	SP000227824	IDW75E60FKSA1	127	IGD06N60T	SP000960698	IGD06N60TATMA1	123
IFX1021SJ	SP000870896	IFX1021SJXUMA1	163	IGP01N120H2	SP000683036	IGP01N120H2XKSA1	120
IFX1040SJ	SP000938316	IFX1040SJXUMA1	163	IGP03N120H2	SP000683038	IGP03N120H2XKSA1	120
IFX1050G	SP000613990	IFX1050GXUMA1	163	IGP06N60T	SP000683040	IGP06N60TXKSA1	123
IFX1050GVIO	SP000885580	IFX1050GVIOXUMA1	163	IGP10N60T	SP000683042	IGP10N60TXKSA1	123
IFX1054G	SP000613756	IFX1054GXUMA1	163	IGP15N60T	SP000683044	IGP15N60TXKSA1	123
IFX1117ME V33	SP000892486	IFX1117MEV33HTMA1	156	IGP20N60H3	SP000702544	IGP20N60H3XKSA1	121
IFX1117MEV	SP000892488	IFX1117MEVHTMA1	156	IGP30N60H3	SP000702546	IGP30N60H3XKSA1	121
IFX1763XEJ V33	SP000938790	IFX1763XEJV33XUMA1	157	IGP40N65F5	SP000973422	IGP40N65F5XKSA1	122
IFX1763XEJ V50	SP000938802	IFX1763XEJV50XUMA1	157	IGP40N65H5	SP001001738	IGP40N65H5XKSA1	122
IFX1763XEJV	SP000938788	IFX1763XEJVXUMA1	157	IGP50N60T	SP000683046	IGP50N60TXKSA1	123
IFX1963TBV	SP001045786	IFX1963TBVATMA1	156	IGU04N60T	SP001045846	IGU04N60TAKMA1	123
IFX1963TEV	SP001045788	IFX1963TEVATMA1	156	IGW03N120H2	SP000014182	IGW03N120H2FKSA1	120
IFX20001MB V33	SP000623344	IFX20001MBV33HTSA1	156	IGW08T120	SP000013937	IGW08T120FKSA1	123
IFX20001MB V50	SP000623428	IFX20001MBV50HTSA1	155	IGW100N60H3	SP000913772	IGW100N60H3FKSA1	121
IFX20002MB V33	SP001041636	IFX20002MBV33HTSA1	156	IGW15N120H3	SP000674430	IGW15N120H3FKSA1	121
IFX20002MB V50	SP001041644	IFX20002MBV50HTSA1	155	IGW15T120	SP000013888	IGW15T120FKSA1	123
IFX21004TN V51	SP000841766	IFX21004TNV51AKSA1	156	IGW20N60H3	SP000852238	IGW20N60H3FKSA1	121
IFX21401MB	SP000614692	IFX21401MBHTSA1	157	IGW25N120H3	SP000674424	IGW25N120H3FKSA1	121
IFX24401EL V50	SP000639070	IFX24401ELV50XUMA1	155	IGW25T120	SP000013887	IGW25T120FKSA1	123
IFX24401TE V50	SP000660598	IFX24401TEV50ATMA1	155	IGW30N100T	SP000380845	IGW30N100TFKSA1	125
IFX25001ME V25	SP000623288	IFX25001MEV25HTSA1	156	IGW30N60H3	SP000852242	IGW30N60H3FKSA1	121
IFX25001ME V33	SP000623166	IFX25001MEV33HTSA1	156	IGW30N60T	SP000054925	IGW30N60TFKSA1	123
IFX25001TC V10	SP000623084	IFX25001TCV10ATMA1	155	IGW40N120H3	SP000667510	IGW40N120H3FKSA1	121
IFX25001TC V50	SP000611474	IFX25001TCV50ATMA1	155	IGW40N60H3	SP000769926	IGW40N60H3FKSA1	121
IFX25001TC V85	SP000623112	IFX25001TCV85ATMA1	155	IGW40N65F5	SP000973424	IGW40N65F5FKSA1	122
IFX25001TF V33	SP000623156	IFX25001TFV33ATMA1	156	IGW40N65H5	SP001001742	IGW40N65H5FKSA1	122
IFX25001TF V50	SP000614696	IFX25001TFV50ATMA1	155	IGW40T120	SP000013886	IGW40T120FKSA1	123
IFX25001TS V10	SP000623070	IFX25001TSV10AKSA1	155	IGW50N60H3	SP000702548	IGW50N60H3FKSA1	121
IFX25001TS V50	SP000624196	IFX25001TSV50AKSA1	155	IGW50N60T	SP000054926	IGW50N60TFKSA1	123
IFX25001TS V85	SP000623094	IFX25001TSV85AKSA1	155	IGW50N65F5	SP000973426	IGW50N65F5FKSA1	122
IFX25401TB V50	SP000623298	IFX25401TBV50ATMA1	157	IGW50N65H5	SP001001744	IGW50N65H5FKSA1	122
IFX25401TBV	SP000611478	IFX25401TBVATMA1	157	IGW60N60H3	SP000925524	IGW60N60H3FKSA1	121
IFX25401TE V50	SP000623308	IFX25401TEV50ATMA1	157	IGW60T120	SP000013906	IGW60T120FKSA1	123
IFX25401TEV	SP000614698	IFX25401TEVATMA1	157	IGW75N60H3	SP000906804	IGW75N60H3FKSA1	121
IFX27001TF V15	SP000624122	IFX27001TFV15ATMA1	156	IGW75N60T	SP000054927	IGW75N60TFKSA1	123
IFX27001TF V18	SP000624104	IFX27001TFV18ATMA1	156	IHD06N60RA	SP001065448	IHD06N60RAATMA1	125
IFX27001TF V26	SP000624182	IFX27001TFV26ATMA1	156	IHD10N60RA	SP001065450	IHD10N60RAATMA1	125
IFX27001TF V33	SP000624112	IFX27001TFV33ATMA1	156	IHW15N120R3	SP000521590	IHW15N120R3FKSA1	126
IFX27001TF V50	SP000622990	IFX27001TFV50ATMA1	155	IHW15T120	SP000014892	IHW15T120FKSA1	124
IFX27001TFV	SP000624090	IFX27001TFVATMA1	157	IHW20N120R3	SP000437702	IHW20N120R3FKSA1	126
IFX2931G V33	SP000539026	IFX2931GV33XUMA1	156	IHW20N135R3	SP000909532	IHW20N135R3FKSA1	126