

INFINEON Intelligent Power Modules and Transistors



Transistors

Infineon

CIPOS™ INTELLIGENT POWER MODULES



This product is RoHS compliant.

CIPOS™ power modules increase energy efficiency and reliability of home appliance motors. The CIPOS™ modules incorporate a three-phase inverter power stage with a SOI (Silicon-On-Insulator) gate driver, boot strap diodes and capacitors, and auxiliary circuitry in a compact, high-performance, fully isolated package. Based on a combination of Infineon's leading-edge TRENCHSTOP™ IGBT (Insulated Gate Bipolar Transistor) and emitter controlled diode technology, they eliminate as many as 23 discrete components compared to a design based on discrete components. The CIPOS™ modules also offer the industry's lowest junction-to-case resistance, which increases output current by up to 20 percent compared to other available modules.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Infineon Part No.	Package	V _{CES} (Min)(V)	Output Current (Max) (A)	Emitter Config.	P _{tot} (Max)(W)	Built-in Bootstrap	Built-in NTC	Built-in Rectifier	Fault Pin	Price Each			
											1	5	10	50
726-IGCM06B60GA	IGCM06B60GA	DIL Module	600	6	Closed	19	Yes	Yes	Yes	Yes	15.35	12.80	11.53	10.25
726-IGCM06F60GA	IGCM06F60GA	DIL Module	600	6	Open	23	Yes	Yes	No	Yes	13.40	11.18	10.07	8.95
641-IKCS08F60B2A	IKCS08F60B2A	PG-MSIP-20	600	8	Open	30	Yes	Yes	No	Yes	17.01	15.46	13.91	13.14
641-IKCS08F60B2C	IKCS08F60B2C	PG-MSIP-20	600	8	Open	30	Yes	Yes	No	Yes	17.01	15.46	13.91	13.14
641-IKCS08F60F2A	IKCS08F60F2A	PG-MSIP-20	600	8	Open	30	Yes	Yes	No	Yes	17.20	15.64	14.08	13.29
641-IKCS08F60F2C	IKCS08F60F2C	PG-MSIP-20	600	8	Open	30	Yes	Yes	No	Yes	17.20	15.64	14.08	13.29
726-IGCM10F60GA	IGCM10F60GA	DIL Module	600	10	Open	26	Yes	Yes	No	Yes	14.55	12.13	10.93	9.72
641-IKCS12F60B2A	IKCS12F60B2A	PG-MSIP-20	600	12	Open	35	Yes	Yes	No	Yes	18.33	16.66	14.99	14.16
641-IKCS12F60B2C	IKCS12F60B2C	PG-MSIP-20	600	12	Open	35	Yes	Yes	No	Yes	18.33	16.66	14.99	14.16
726-IKCS12F60EA	IKCS12F60EA	SIL Module	600	12	Open	35	Yes	No	No	Yes	19.71	17.91	16.12	15.22
641-IKCS12F60F2A	IKCS12F60F2A	PG-MSIP-20	600	12	Open	35	Yes	Yes	No	Yes	18.55	16.86	15.17	14.33
641-IKCS12F60F2C	IKCS12F60F2C	PG-MSIP-20	600	12	Open	35	Yes	Yes	No	Yes	18.55	16.86	15.17	14.33
641-IKCS12G60DA	IKCS12G60DA	PG-MSIP-19	600	12	Closed	35	Yes	Yes	No	Yes	19.67	17.88	16.09	15.20
726-IGCM15F60GA	IGCM15F60GA	DIL Module	600	15	Open	29	Yes	Yes	No	Yes	16.30	13.59	12.24	10.89
641-IKCS17F60B2A	IKCS17F60B2A	PG-MSIP-20	600	17	Open	52	Yes	Yes	No	Yes	21.93	19.94	17.95	16.95
641-IKCS17F60F2A	IKCS17F60F2A	PG-MSIP-20	600	17	Open	52	Yes	Yes	No	Yes	22.15	20.14	18.13	17.12
726-IGCM20F60GA	IGCM20F60GA	DIL Module	600	20	Open	33	Yes	Yes	No	Yes	19.45	16.22	14.61	12.99
641-IHCS22R60CE	IHCS22R60CE	PG-MSIP-17	600	22	Closed	65	Yes	Yes	No	Yes	26.03	23.66	21.29	20.11
641-IKCS22F60B2A	IKCS22F60B2A	PG-MSIP-20	600	22	Open	59	Yes	Yes	No	Yes	26.58	24.16	21.74	20.54
641-IKCS22F60F2A	IKCS22F60F2A	PG-MSIP-20	600	22	Open	59	Yes	Yes	No	Yes	26.77	24.34	21.91	20.69
641-IKCS22F60F2C	IKCS22F60F2C	PG-MSIP-20	600	22	Open	59	Yes	Yes	No	Yes	26.77	24.34	21.91	20.69

GENERAL PURPOSE TRANSISTORS

The Infineon General Purpose Transistors including Darlingtons, switching and high voltage transistors. They are available in various packages even in multichip- packages where also PNP & NPN combinations are available. Main packages are SOT-23, SOT-323, SOT-363, TSFP and TSLP. We deliver transistors with V_{CEO} up to 120V and I_C up to 1000mA. With our product portfolio we can cover nearly all applications in automotive, industry, consumer, communication and datacom.

AF Darlingtons Transistors

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Infineon Part No.	Package	Polarity Type	V _{CEO} (max)	I _C (max)	P _{tot} (max)	h _{FE}			Price Each			
							(min)	@ I _C	@ V _{CE}	1	10	100	500
726-SMBTA14E6327	SMBTA14E6327XT	SOT-23-3	NPN	30V	300mA	330mW	20000	100mA	5V	.56	.39	.238	.135
726-BCV47E6327	BCV47E6327XT	SOT-23-3	NPN	60V	500mA	360mW	10000	100mA	5V	.63	.42	.20	.108
726-BCV46E6327	BCV46E6327XT	SOT-23-3	PNP	60V	500mA	360mW	10000	100mA	5V	.72	.49	.23	.125

AF General Purpose Transistors

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Infineon Part No.	Package	Polarity Type	V _{CEO} (max)	I _C (max)	P _{tot} (max)	h _{FE}			Price Each			
							(min)	@ I _C	@ V _{CE}	1	10	100	500
726-BCX6825E6327	BCX6825E6327XT	SOT-89-4	NPN	20V	1A	3,000mW	160	500mA	1V	.50	.40	.30	.155
726-MMBT3904LT1	MMBT3904LT1XT	SOT-23-3	NPN	40V	200mA	330mW	100	10mA	1V	.14	.11	.074	.046
726-SMBT3904E6327	SMBT3904E6327XT	SOT-23-3	PNP	40V	200mA	330mW	100	10mA	1V	.40	.28	.12	.05
726-MMBT2222ALT1	MMBT2222ALT1XT	SOT-23-3	NPN	40V	600mA	330mW	100	150mA	10V	.50	.33	.144	.066
726-SMBT2222AE6327	SMBT2222AE6327XT	SOT-23-3	PNP	40V	600mA	330mW	100	150mA	10V	.50	.33	.144	.066
726-BC817K-16E6327	BC817K16E6327XT	SOT-323-3	PNP	45V	500mA	500mW	100	100mA	1V	.16	.12	.08	.035
726-BC817K-25E6327	BC817K25E6327XT	SOT-23-3	NPN	45V	500mA	500mW	160	100mA	1V	.40	.26	.114	.037
726-BC817K-40E6327	BC817K40E6327XT	SOT-23-3	PNP	45V	500mA	500mW	160	100mA	1V	.16	.12	.08	.035
726-BC847BE6327	BC847BE6327XT	SOT-23-3	PNP	45V	100mA	330mW	200	2mA	5V	.35	.232	.101	.035
726-BC850CE6327	BC850CE6327XT	SOT-23-3	NPN	45V	100mA	330mW	420	2mA	5V	.43	.28	.122	.039
726-BCP5416E6327	BCP5416E6327XT	SOT-223-4	PNP	45V	1A	1,500mW	100	150mA	2V	.36	.32	.29	.165
726-BCX5416E6327	BCX5416E6327XT	SOT-89-4	PNP	45V	1A	1,000mW	100	150mA	2V	.49	.383	.262	.121
726-BCX70KE6327	BCX70KE6327XT	SOT-23-3	NPN	45V	100mA	330mW	380	2mA	5V	.50	.33	.144	.066
726-MMBTA06LT1	MMBTA06LT1XT	SOT-23-3	PNP	80V	500mA	330mW	100	100mA	1V	.36	.24	.114	.061
726-SMBTA06E6327	SMBTA06E6327XT	SOT-23-3	PNP	80V	500mA	330mW	100	100mA	1V	.38	.25	.12	.045
726-BCX5610E6327	BCX5610E6327XT	SOT-89-4	NPN	80V	1A	2,000mW	63	150mA	2V	.38	.31	.25	.125
726-SMBTA42E6327	SMBTA42E6327XT	SOT-23-3	PNP	300V	500mA	360mW	40	30mA	10V	.61	.41	.196	.073
726-BCX69-16E6327	BCX6916E6327XT	SOT-89-4	PNP	20V	1A	3,000mW	100	500mA	1V	.57	.44	.304	.172
726-BCV62CE6327	BCV62CE6327XT	SOT-143-4	PNP	30V	100mA	300mW	420	2mA	5V	.46	.326	.217	.105
726-BCV26E6327	BCV26E6327XT	SOT-23-3	PNP	30V	500mA	360mW	20000	100mA	5V	.35	.25	.16	.078
726-MMBT3906LT1	MMBT3906LT1XT	SOT-23-3	PNP	40V	200mA	330mW	100	10mA	1V	.16	.12	.08	.05
726-SMBT3906E6327	SMBT3906E6327XT	SOT-23-3	PNP	40V	200mA	330mW	100	10mA	1V	.43	.28	.122	.056
726-BC857BE6327	BC857BE6327XT	SOT-23-3	PNP	45V	100mA	330mW	220	2mA	5V	.35	.232	.101	.035
726-BC857CE6327	BC857CE6327XT	SOT-23-3	PNP	45V	100mA	330mW	420	2mA	5V	.38	.24	.108	.049
726-BCX71KE6327	BCX71KE6327XT	SOT-23-3	PNP	45V	100mA	330mW	380	2mA	5V	.50	.32	.142	.046
726-BCW68HE6327	BCW68HE6327XT	SOT-23-3	PNP	45V	800mA	330mW	250	100mA	1V	.43	.292	.137	.055
726-MMBT2907ALT1	MMBT2907ALT1XT	SOT-23-3	PNP	60V	600mA	330mW	100	150mA	10V	.50	.33	.144	.066
726-SMBT2907AE6327	SMBT2907AE6327XT	SOT-23-3	PNP	60V	600mA	330mW	100	150mA	10V	.50	.33	.144	.066
726-MMBTA56LT1	MMBTA56LT1XT	SOT-23-3	PNP	80V	500mA	330mW	100	100mA	1V	.16	.14	.087	.044
726-SMBTA56E6327	SMBTA56E6327XT	SOT-23-3	PNP	80V	500mA	330mW	100	100mA	1V	.14	.13	.087	.032
726-BCP5310E6327	BCP5310E6327XT	SOT-23-3	PNP	80V	1A	2,000mW	160	150mA	2V	.40	.35	.31	.22
726-BCX53-10E6327	BCX5310E6327XT	SOT-89-4	PNP	80V	1A	2,000mW	63	150mA	2V	.45	.35	.243	.131
726-SMBTA92E6327	SMBTA92E6327XT	SOT-23-3	PNP	300V	500mA	360mW	40	10mA	10V	.50	.34	.16	.087