



Power Devices (IGBT)

IGBT Modules, P series

1200, 1400 volts class/High speed switching and low noise

Device type	V _{CES}	V _{GES}	I _C	P _C	V _{CE(sat)} (V _{GE} =15V)		Switching time Max.			Package	Net mass Grams
	Volts	Volts	Cont. Amps.	Watts	Max. Volts	I _C Amps.	ton μsec.	toff μsec.	tf μsec.		
2MBI50P-140	1400	±20	50	400	3.0	50	1.2	1.0	0.3	M232	180
2MBI75P-140	1400	±20	75	600	3.0	75	1.2	1.0	0.3	M232	180
2MBI100PC-140	1400	±20	100	780	3.0	100	1.2	1.0	0.3	M233	240
2MBI150PC-140	1400	±20	150	1100	3.0	150	1.2	1.0	0.3	M233	240
2MBI200PB-140	1400	±20	200	1500	3.0	200	1.2	1.0	0.3	M235	370
2MBI300P-140	1400	±20	300	2500	3.0	300	1.2	1.0	0.3	M238	470
1MBI600PX-120	1200	±20	600	4100	3.2	600	1.2	1.0	0.3	M138	530
1MBI600PX-140	1400	±20	600	4100	3.2	600	1.2	1.0	0.3	M138	530

High Voltage and High Current IGBT Modules

Device type	V _{CES}	V _{GES}	I _C	P _C	V _{CE(sat)} (V _{GE} =15V)		Switching time Max.			Package	Net mass Grams
	Volts	Volts	Cont. Amps.	Watts	Max. Volts	I _C Amps.	ton μsec.	toff μsec.	tf μsec.		
1MBI800PN-180	1800	±20	800	4200	4.5	800	4.0	3.0	0.3	M133	1500

IGBT Modules, S series

1200 volts class/Pc-pack, 6 in one-package S series

Device type	V _{CES}	V _{GES}	I _C	P _C	V _{CE(sat)} (V _{GE} =15V)		Switching time (Max.)			Package	Net mass Grams
	Volts	Volts	Cont. Amps.	Watts	(Max.) Volts	I _C Amps.	ton μsec.	toff μsec.	tf μsec.		
6MBI10S-120	1200	±20	10	75	2.60	10	1.2	1.0	0.3	M623	175
6MBI15S-120	1200	±20	15	110	2.60	15	1.2	1.0	0.3	M623	175
6MBI25S-120	1200	±20	25	180	2.60	25	1.2	1.0	0.3	M623	175
6MBI35S-120	1200	±20	35	240	2.60	35	1.2	1.0	0.3	M623	175
6MBI50S-120	1200	±20	50	360	2.60	50	1.2	1.0	0.3	M623	175
6MBI75S-120	1200	±20	75	520	2.60	75	1.2	1.0	0.3	M626	305
6MBI100S-120	1200	±20	100	700	2.60	100	1.2	1.0	0.3	M626	305

PIM/Built-in converter and brake S series

Device type	Inverter [IGBT]				Brake [IGBT+FWD]			Converter [Diode]				Package	Net mass Grams
	V _{CES}	I _C	P _C	V _{CE(sat)}	V _{CES}	I _C	V _{RRM}	V _{RRM}	I _O	V _{FM}	I _{FSM}		
	Volts	Cont. Amps.	Watts	Max. Volts	Volts	Cont. Amps.	Volts	Volts	Cont. Amps.	Max. Watts	Volts		
7MBR30SA060	600	30	120	2.40	600	20	600	800	30	1.5	210	M711	175
7MBR50SA060	600	50	200	2.40	600	30	600	800	50	1.5	350	M711	175
7MBR50SB060	600	50	200	2.40	600	30	600	800	50	1.5	350	M712	285
7MBR75SB060	600	75	300	2.55	600	50	600	800	75	1.5	525	M712	285
7MBR100SB060	600	100	400	2.60	600	50	600	800	100	1.5	700	M712	285
7MBR10SA120	1200	10	75	2.60	1200	10	1200	1600	10	1.5	105	M711	175
7MBR15SA120	1200	15	110	2.60	1200	15	1200	1600	15	1.5	155	M711	175
7MBR25SA120	1200	25	180	2.60	1200	15	1200	1600	25	1.5	260	M711	175
7MBR35SB120	1200	35	240	2.70	1200	25	1200	1600	35	1.5	360	M712	285
7MBR50SB120	1200	50	360	2.70	1200	25	1200	1600	50	1.5	520	M712	285