

IGBT MODULES

Ratings and Specifications

查询: 1957100-060 供应商

1 600 volts class IGBT modules

- The turnoff time is one tenth or less that of bipolar transistors, enabling a high conversion frequency for power converters.
- The voltage drive element enables the drive circuit to be miniaturized and used in common.
- Because the safe operating area is wide at turnoff, operation is possible at margins under high voltage.

Device type	V _{CE(s)}	V _{GE(s)}	I _c	P _c	V _{CE(sat)}	(V _{GE} =15V)	Switching time (Max.)			Package	Net weight grams	Equivalent circuit (page 40)
	volts	volts	cont. amps.	watts	Max. volts	I _c amps.	t _{on} μsec.	t _{off} μsec.	t _f μsec.			
2MBI50-060	600	±20	50	250	5.0	50	1.0	1.5	1.0	M211	210	Fig. H2
2MBI75-060	600	±20	75	325	5.0	75	1.0	1.5	1.0	M211	210	Fig. H2
2MBI100-060	600	±20	100	400	5.0	100	1.0	1.5	1.0	M211	210	Fig. H2
2MBI150-060	600	±20	150	600	5.0	150	1.0	1.5	1.0	M212	275	Fig. H2
2MBI200-060	600	±20	200	800	5.0	200	1.0	1.5	1.0	M213	395	Fig. H2
2MBI300-060	600	±20	300	1200	5.0	300	2.0	2.0	1.0	M210	470	Fig. H2
1MBI400-060	600	±20	400	1600	5.0	400	2.0	2.0	1.0	M106	460	Fig. H1

2 600 volts class 6-pack IGBT modules

- 6 IGBTs and 6 free wheel diodes are built into one package.
- Optimal for miniaturizing and reducing the weight of three-phase 200 to 220 volts input inverters.

Device type	V _{CE(s)}	V _{GE(s)}	I _c	P _c	V _{CE(sat)}	(V _{GE} =15V)	Switching time (Max.)			Package	Net weight grams	Equivalent circuit (page 40)
	volts	volts	cont. amps.	watts	Max. volts	I _c amps.	t _{on} μsec.	t _{off} μsec.	t _f μsec.			
6MBI10-060	600	±20	10	40	5.0	10	1.2	1.5	1.0	M604	150	Fig. H3
6MBI15-060	600	±20	15	60	5.0	15	1.0	1.5	1.0	M604	150	Fig. H3
6MBI20-060	600	±20	20	80	5.0	20	1.2	1.5	1.0	M604	150	Fig. H3
6MBI30-060	600	±20	30	120	5.0	30	1.2	1.5	1.0	M607	235	Fig. H4
6MBI50-060	600	±20	50	250	5.0	50	1.0	1.5	1.0	M608	510	Fig. H5
6MBI75-060	600	±20	75	300	5.0	75	1.0	1.5	1.0	M608	510	Fig. H5
6MBI100-060	600	±20	100	400	5.0	100	1.0	1.5	1.0	M608	510	Fig. H5

Letter symbols

- V_{CE(s)} : Collector-to-emitter rated voltage (Gate-to-emitter short-circuited)
- V_{GE(s)} : Gate-to-emitter rated voltage (Collector-to-emitter short-circuited)
- I_c : Rated collector current
- P_c : Collector power dissipation
- V_{CE(sat)} : Collector-to-emitter saturation voltage
- t_{on} : Turnon time
- t_{off} : Turnoff time
- t_f : Fall time

