

# IGBT MODULES

## Ratings and Specifications

[查询"2MB100-060"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 <sub>CES</sub>	V <sub>GES</sub>	I <sub>c</sub>	P <sub>c</sub>	V <sub>CE(sat)</sub>	(V <sub>GE</sub> =15V)	Switching time (Max.)			Package	Net weight grams	Equivalent circuit (page 40)
	volts	volts	cont. amps.	watts	Max. volts	I <sub>c</sub> amps.	t <sub>on</sub> μsec.	t <sub>off</sub> μsec.	t <sub>f</sub> μsec.			
2MB150-060	600	±20	50	250	5.0	50	1.0	1.5	1.0	M211	210	Fig. H2
2MB175-060	600	±20	75	325	5.0	75	1.0	1.5	1.0	M211	210	Fig. H2
2MB1100-060	600	±20	100	400	5.0	100	1.0	1.5	1.0	M211	210	Fig. H2
2MB1150-060	600	±20	150	600	5.0	150	1.0	1.5	1.0	M212	275	Fig. H2
2MB1200-060	600	±20	200	800	5.0	200	1.0	1.5	1.0	M213	395	Fig. H2
2MB1300-060	600	±20	300	1200	5.0	300	2.0	2.0	1.0	M210	470	Fig. H2
1MB1400-060	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 <sub>CES</sub>	V <sub>GES</sub>	I <sub>c</sub>	P <sub>c</sub>	V <sub>CE(sat)</sub>	(V <sub>GE</sub> =15V)	Switching time (Max.)			Package	Net weight grams	Equivalent circuit (page 40)
	volts	volts	cont. amps.	watts	Max. volts	I <sub>c</sub> amps.	t <sub>on</sub> μsec.	t <sub>off</sub> μsec.	t <sub>f</sub> μsec.			
6MB110-060	600	±20	10	40	5.0	10	1.2	1.5	1.0	M604	150	Fig. H3
6MB115-060	600	±20	15	60	5.0	15	1.0	1.5	1.0	M604	150	Fig. H3
6MB120-060	600	±20	20	80	5.0	20	1.2	1.5	1.0	M604	150	Fig. H3
6MB130-060	600	±20	30	120	5.0	30	1.2	1.5	1.0	M607	235	Fig. H4
6MB150-060	600	±20	50	250	5.0	50	1.0	1.5	1.0	M608	510	Fig. H5
6MB175-060	600	±20	75	300	5.0	75	1.0	1.5	1.0	M608	510	Fig. H5
6MB1100-060	600	±20	100	400	5.0	100	1.0	1.5	1.0	M608	510	Fig. H5

#### Letter symbols

- V<sub>CES</sub> : Collector-to-emitter rated voltage (Gate-to-emitter short-circuited)
- V<sub>GES</sub> : Gate-to-emitter rated voltage (Collector-to-emitter short-circuited)
- I<sub>c</sub> : Rated collector current
- P<sub>c</sub> : Collector power dissipation
- V<sub>CE (sat)</sub> : Collector-to-emitter saturation voltage
- t<sub>on</sub> : Turnon time
- t<sub>off</sub> : Turnoff time
- t<sub>f</sub> : Fall time