

INTELLIGENT POWER MODULES



Over Temperature Protection

Under Voltage Protection

Short Circuit Protection

Over Current Protection

600 VOLT, 6-PACK IPM MODULES

• 15 - 100 Amp

Device Type	V _{DC}	I _C	P _C	V _{CE(sat)} Max.	V _{F(-IC)}	Switching Time (Max.)			R _{TH}	R _{TH}	Supply	T _{OH}	I _{OC}	Pkg.
	Volts	Amps	Watts	Volts	Volts	t _{ON} μsec.	t _{OFF} μsec.	t _r μsec.	IGBT °C/W	Diode °C/W	V _{CC} Typ. Volts	Typ. °C	Min. Amps	
6MBP15JB060	450	15	40	2.5	3.0	2.0	3.0	0.5	3.13	4.00	15	95	18	P602
6MBP20JB060	450	20	50	2.5	3.0	2.0	3.0	0.5	2.50	4.00	15	95	28	P602
6MBP50NA060-01	450	50	198	2.9	3.0	0.3	3.6	-	0.63	1.33	15	117	65	P607
6MBP75NA060-01	450	75	320	2.9	3.0	0.3	3.6	-	0.39	0.90	15	117	98	P607
6MBP100NA060-01	450	100	400	2.9	3.3	0.3	3.6	-	0.31	0.90	15	117	130	P607

600 VOLT, 7-PACK IPM MODULES

• 50 - 100 Amp IPM including dynamic brake IGBT and FRD

Device Type	V _{DC}	I _C	P _C	V _{CE(sat)} Max.	V _{F(-IC)}	Switching Time (Max.)			R _{TH}	R _{TH}	Supply	T _{OH}	I _{OC}	Pkg.
	Volts	Amps	Watts	Volts	Volts	t _{ON} μsec.	t _{OFF} μsec.	t _r μsec.	IGBT °C/W	Diode °C/W	V _{CC} Typ. Volts	Typ. °C	Min. Amps	
7MBP50NA060-01	450	50	198	2.9	3.0	0.3	3.6	-	0.63	1.33	15	117	65	P607
7MBP75NA060-01	450	75	320	2.9	3.0	0.3	3.6	-	0.39	0.90	15	117	98	P607
7MBP100NA060-01	450	100	400	2.9	3.3	0.3	3.6	-	0.31	0.90	15	117	130	P607

1200 VOLT, 6-PACK & 7-PACK IPM MODULES

• 100 & 50 Amp IPM

Device Type	V _{DC}	I _C	P _C	V _{CE(sat)} Max.	V _{F(-IC)}	Switching Time (Max.)			R _{TH}	R _{TH}	Supply	T _{OH}	I _{OC}	Pkg.
	Volts	Amps	Watts	Volts	Volts	t _{ON} μsec.	t _{OFF} μsec.	t _r μsec.	IGBT °C/W	Diode °C/W	V _{CC} Typ. Volts	Typ. °C	Min. Amps	
6MBP100JA120	900	100	600	3.0	2.5	2.0	3.0	0.5	0.21	0.40	15	117	150	P605
7MBP50JA120	900	50	240	3.0	3.0	2.0	3.0	0.5	0.52	1.00	15	117	75	P604

G-SERIES IGBT

600 VOLT, SINGLE-IN-LINE IGBT

• 10 - 20 Amp

Device Type	V _{CE(s)}	I _C	P _C	V _{CE(sat)} Max.	V _{GE = 15V} I _C	Switching Time (Max.)			Collector Current	R _{TH}	R _{TH}	V _F	t _{rr}	Pkg.
	Volts	Cont. Amps	Per IGBT Watts	Volts	Amps	t _{ON} μsec.	t _{OFF} μsec.	t _r μsec.	I _C Pulse	IGBT °C/W	Diode °C/W	Max. Volts	Max. nS	
6MBI10GS-060	600	10	45	2.8	10	1.2	1.0	0.35	20	2.78	4.5	3.0	300	SIL
6MBI15GS-060	600	15	60	2.8	15	1.2	1.0	0.35	30	2.08	3.0	3.0	300	SIL
6MBI20GS-060	600	20	70	2.8	20	1.2	1.0	0.35	40	1.79	2.5	3.0	300	SIL