



FOURTH GENERATION IGBT

- NEW 4th Generation NPT Technology
- Lower Power Dissipation
- Solderable Terminals
- Lower Inverter Noise Radiation
- Higher Capability, Short Circuit Withstand
- Square SCSOA at 10 x Ic
- Internal Temperature Sensor

600 VOLT, S-SERIES POWER INTEGRATED MODULES, PT TECHNOLOGY

- 30 - 100 Amp

Device Type	Inverter (IGBT)				Brake (IGBT - FWD)				Converter (Diode)				Pkg.
	V _{CES}	I _C	P _C	V _{CE(sat)}	V _{CES}	I _C	V _{RRM}	I _{F(AV)}	V _{RRM}	I _O	V _{FM}	I _{FSM}	
	Volts	Amps	Watts	Max.	Volts	Amps	Volts	Amps	Volts	Amps	Volts	Amps	
7MBR30SA-060	600	30	120	2.4	600	20	600	20	800	30	1.5	210	M711
7MBR50SA-060	600	50	200	2.4	600	30	600	30	800	50	1.5	350	M711
7MBR50SB-060	600	50	200	2.45	600	30	600	30	800	50	1.5	350	M712
7MBR75SB-060	600	75	300	2.55	600	50	600	50	800	75	1.5	525	M712
7MBR100SB-060	600	100	400	2.6	600	50	600	50	800	100	1.5	700	M712

1200 VOLT, S-SERIES POWER INTEGRATED MODULES, NPT TECHNOLOGY

- 15 - 75 Amp

Device Type	Inverter (IGBT)				Brake (IGBT - FWD)				Converter (Diode)				Pkg.
	V _{CES}	I _C	P _C	V _{CE(sat)}	V _{CES}	I _C	V _{RRM}	I _{F(AV)}	V _{RRM}	I _O	V _{FM}	I _{FSM}	
	Volts	@25°C Amps	Per IGBT Watts	Max.	Volts	Amps	Volts	Amps	Volts	Amps	Volts	Amps	
7MBR10SA-120	1200	15	75	2.6	1200	15	1200	15	1600	10	1.5	105	M711
7MBR15SA-120	1200	25	110	2.6	1200	25	1200	25	1600	15	1.5	155	M711
7MBR25SA-120	1200	35	180	2.6	1200	25	1200	25	1600	25	1.5	260	M711
7MBR35SB-120	1200	50	240	2.7	1200	35	1200	35	1600	35	1.5	360	M712
7MBR50SB-120	1200	75	360	2.7	1200	35	1200	35	1600	50	1.5	520	M712

1200 VOLT, S-SERIES 6-PACK MODULES, NPT TECHNOLOGY

- 10 - 50 Amp

Device Type	V _{CES}	I _C	P _C	V _{CE(sat)}	V _{GE} = 15V	Switching Time (Max.)			R _{TH}	R _{TH}	V _F	t _{rr}	Pkg.
		@25°C	Per IGBT	Max.	I _C	t _{on}	t _{off}	t _f	IGBT	Diode	Max.	Max.	
	Volts	Amps	Watts	Volts	Amps	μsec.	μsec.	μsec.	°C/W	°C/W	Volts	μsec.	
6MBI10S-120	1200	15	75	2.6	10	1.2	1.0	0.30	1.67	2.78	3.3	0.35	M623
6MBI15S-120	1200	25	110	2.6	15	1.2	1.0	0.30	1.14	1.85	3.3	0.35	M623
6MBI25S-120	1200	35	180	2.6	25	1.2	1.0	0.30	0.69	1.30	3.3	0.35	M623
6MBI35S-120	1200	50	240	2.65	35	1.2	1.0	0.30	0.52	0.90	3.3	0.35	M623
6MBI50S-120	1200	75	360	2.65	50	1.2	1.0	0.30	0.35	0.75	3.3	0.35	M623