

FEATURES

- Blocking voltage: 800 to 1800V
- Three phase bridge rectifier
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Component in accordance to RoHS 2015/863/EU

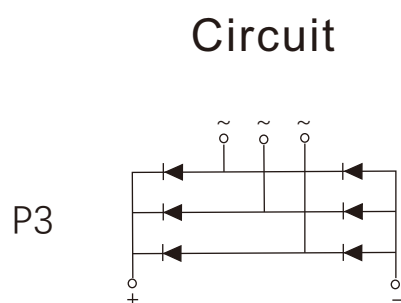
MECHANICAL DATA

- Case: S3
- Molding compound meets UL94V-0 flammability rating
- Polarity: As marked



TYPICAL APPLICATIONS

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Input rectifiers for variable frequency drives



MODULE TYPE

TYPE	VRRM	VRMS	VDC
JS3P3MB200-80	800V	560V	800V
JS3P3MB200-120	1200V	840V	1200V
JS3P3MB200-160	1600V	1120V	1600V
JS3P3MB200-180	1800V	1260V	1800V

ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Test conditions	Value	Unit
Three phase, full wave	IF	Tc=100°C	200	A
Single pulse forward current, per diode	IFSM	t=10ms,Tj=45°C	2500	A
RMS isolation voltage	Viso	AC,,t=1min,50HZ	3000	V
Maximum junction temperature	TJ		150	°C
Storage temperature	Tstg		-40 ~ 125	°C
Maximum I²t for fusing	I²t		31250	A²s
Thermal Resistance,per diode	RθJC	Junction-to-Case	0.36	°C/W
Thermal Resistance,module	RθJC		0.02	°C/W

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	V _{BR}	I _R =100μA	V _{DC}	-	-	V
Forward voltage	V _F	I _F =200A T _J =25°C		1.25	1.35	
Reverse leakage current	I _R	V _R =V _{DC} T _J =25°C		-	0.3	
		V _R =V _{DC} T _J =150°C		-	6	mA

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

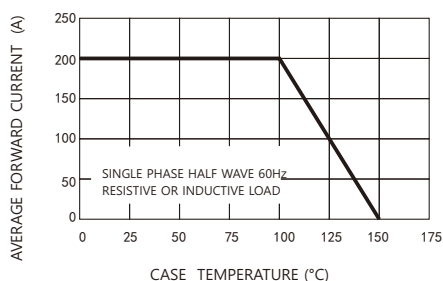


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

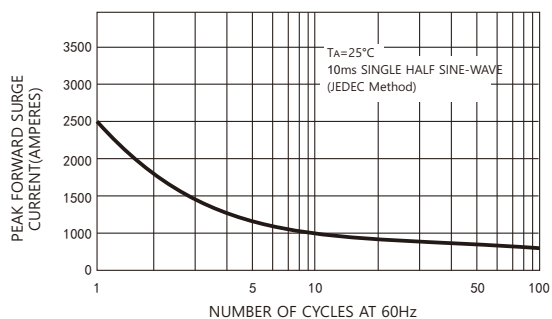


FIG4-TYPICAL FORWARD CHARACTERISTICS

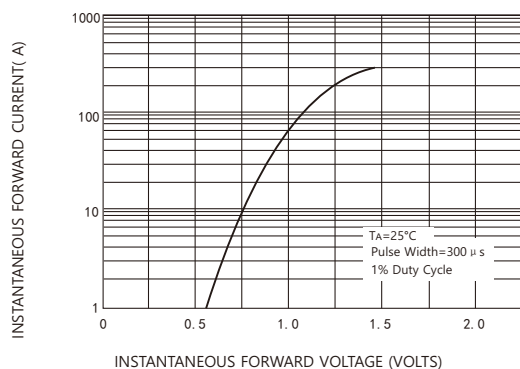
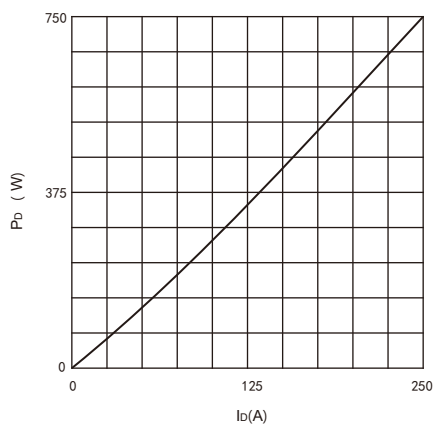
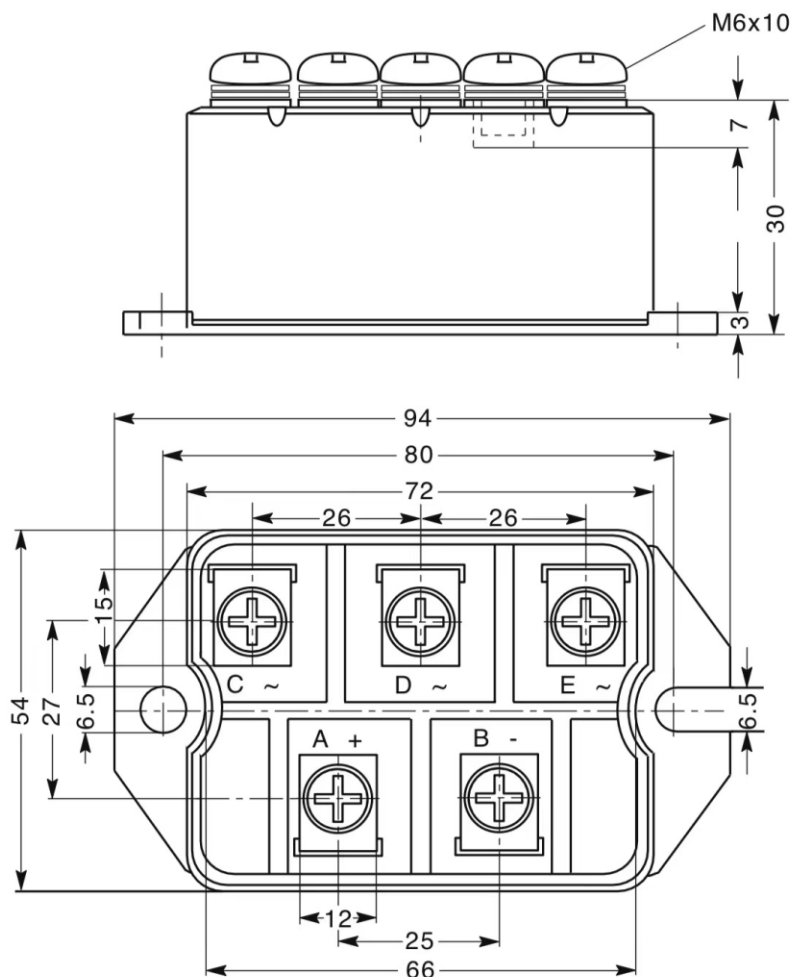


FIG.5-POWER DISSIPATION VS OUTPUT CURRENT



PackageOutlineInformation

S3



Ordering Information Tabel

J	S3P3	MB	200	-	160
①	②	③	④	⑤	

- ① JH' s power module
- ② S3 package,Circuit-P3
- ③ MB-Rectifier Bridge Module
- ④ Maximum average forward current , 200A
- ⑤ Voltage code 1600v

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