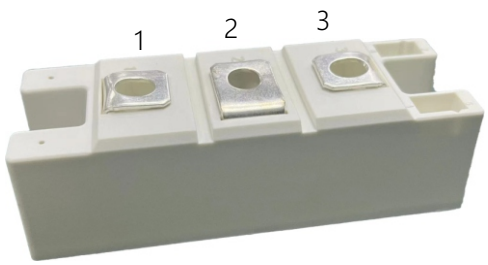
B



FEATURES

- Blocking voltage: 1600V
- Low Forward Voltage
- High surge capability
- Component in accordance to RoHS 2015/863/EU

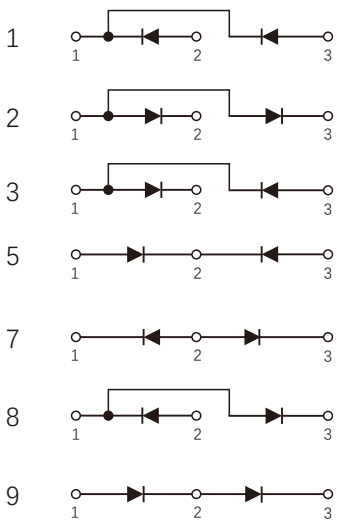
MECHANICAL DATA

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

TYPICAL APPLICATIONS

- Power Supplies
- AC&DC Motor Drivers
- Bridge Circuits
- Welders
- Battery Supplier

X-Circuit



ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Test conditions	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}		1600	V
Maximum Continuous forward current, per diode	I_F	T_C=100℃	200	A
Single pulse forward current, per diode	I_{FSM}	t=8.3ms,half sine	5000	A
RMS isolation voltage	Viso	AC,,t=1min	3000	V
Maximum junction temperature	T_J		175	℃
Storage temperture	T_{stg}		-55 ~ 175	℃
Power Dissipation	P_D		833	W
Thermal Resistance	$R_{\theta JC}$	Junction-to-Case	0.18	℃/W

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	V_{BR}	I_R=100μA	1600	-	-	V
Forward voltage	V_F	I_F=200A T_J=25℃		1.3	1.5	
		I_F=200A T_J=125℃		-	1.3	
Reverse leakage current	I_R	V_R=1600V T_J=25℃		-	10	uA
		V_R=1600V T_J=125℃		-	5	mA

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

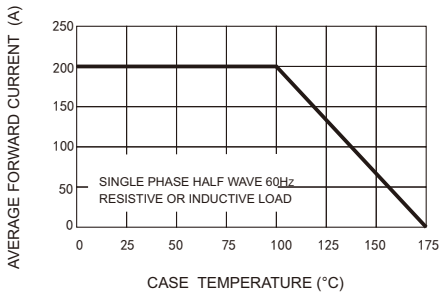


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

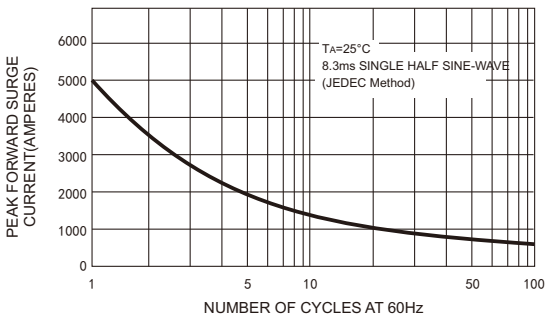


FIG4-TYPICAL FORWARD CHARACTERISTICS

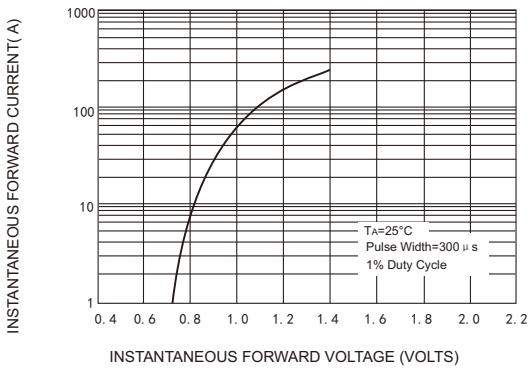
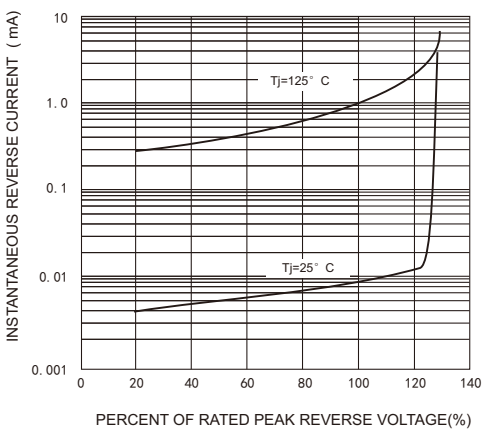
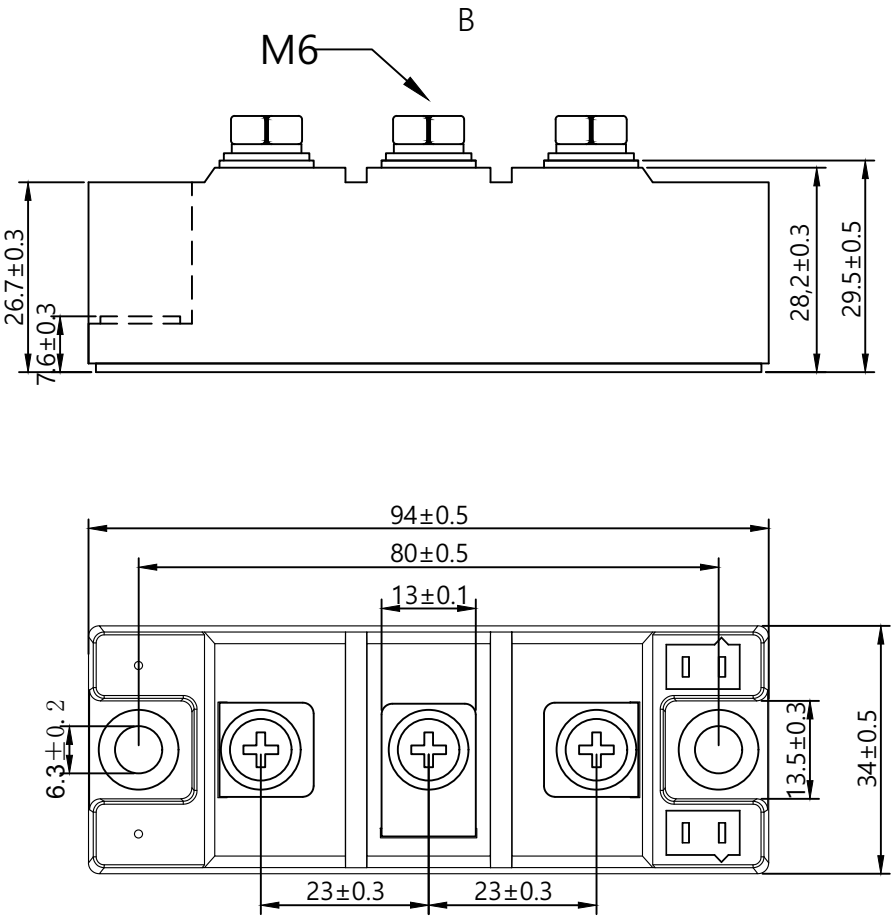


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Outline Information



Dimensions in mm

Ordering Information Tabel

J	B3M	200	-	160
①	②	③		④

① JH' s power module

② Circuit configuration, M-High Power Products Diode Modules, Circuit-3

③ Maximum average forward current , 200A

④ Voltage code 1600V

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