

### FEATURES

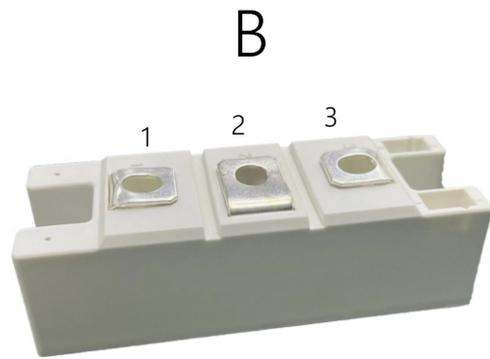
- Blocking voltage: 1800V
- Low Forward Voltage
- High surge capability
- Component in accordance to RoHS 2015/863/EU

### MECHANICAL DATA

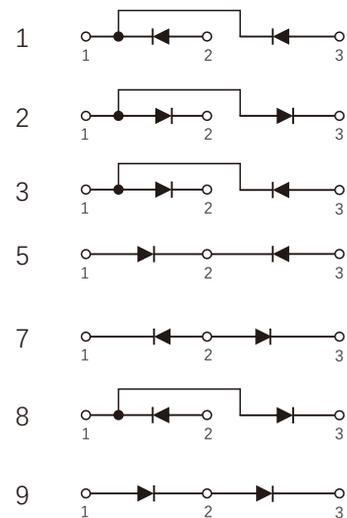
- Case: B
- Molding compound meets UL94V-0 flammability rating
- Polarity: As marked

### 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 <sub>RRM</sub>		1800	V
Maximum Continuous forward current, per diode	I <sub>F</sub>	T <sub>c</sub> =100°C	200	A
Single pulse forward current, per diode	I <sub>FSM</sub>	t=8.3ms, half sine	5000	A
RMS isolation voltage	V <sub>iso</sub>	AC, t=1min	3000	V
Maximum junction temperature	T <sub>J</sub>		175	°C
Storage temperature	T <sub>stg</sub>		-55 ~ 175	°C
Power Dissipation	P <sub>D</sub>		833	W
Thermal Resistance	R <sub>θJC</sub>	Junction-to-Case	0.18	°C/W

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	VBR	$I_R=100\mu A$	1800	-	-	V
Forward voltage	VF	$I_F=200A T_J=25^\circ C$		1.3	1.5	
		$I_F=200A T_J=125^\circ C$		-	1.3	
Reverse leakage current	IR	$V_R=1800V T_J=25^\circ C$		-	10	$\mu A$
		$V_R=1800V T_J=125^\circ C$		-	5	mA

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

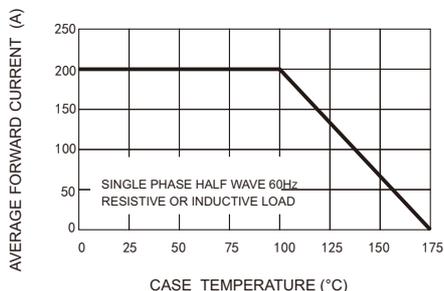


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

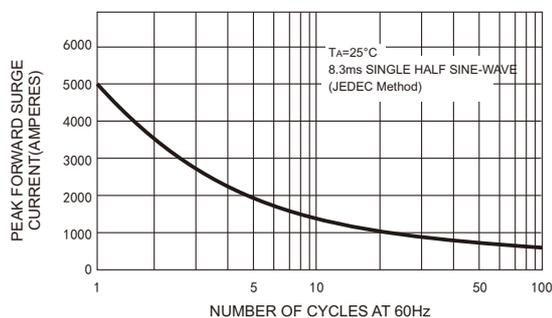


FIG4-TYPICAL FORWARD CHARACTERISTICS

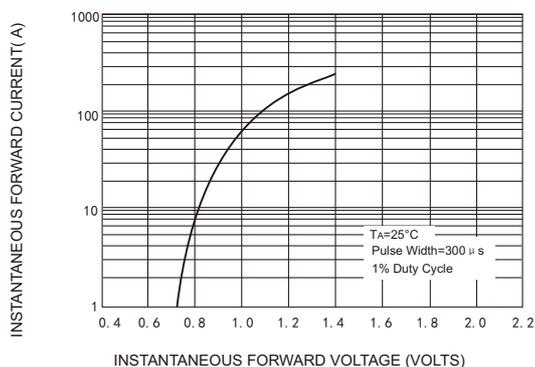
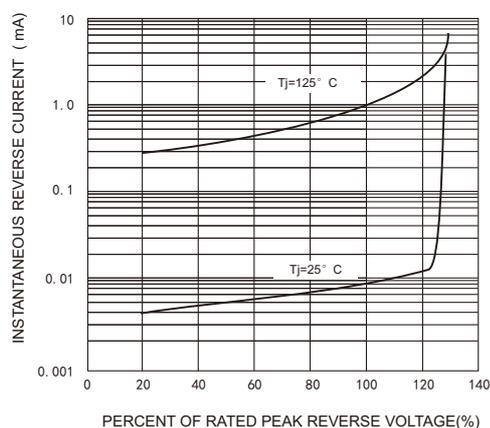
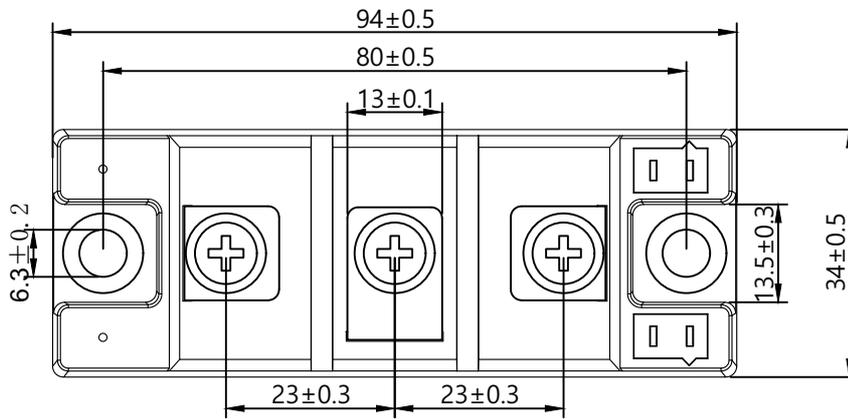
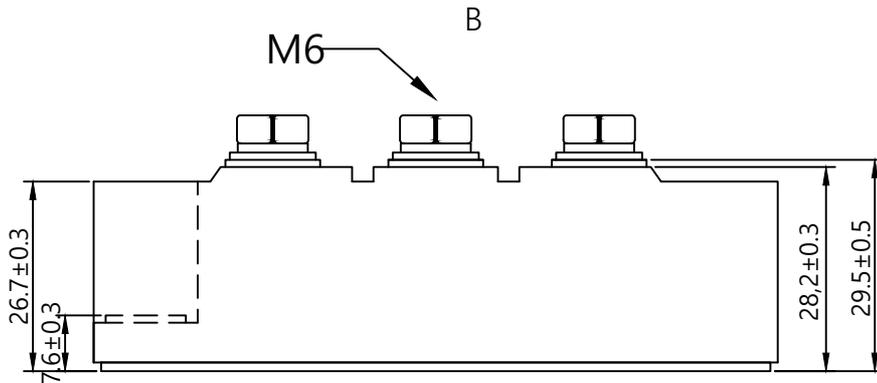


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Outline Information



Dimensions in mm

Ordering Information Tabel

<b>J</b>	<b>B3M</b>	<b>200</b>	<b>-</b>	<b>180</b>
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 1800V

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