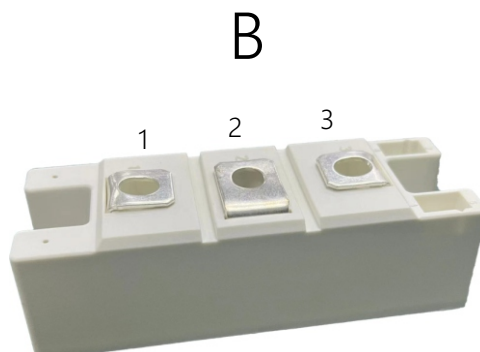


FEATURES

- Blocking voltage: 1200V
- 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
- Battery Supplier
- Welders

Circuit



ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Test conditions	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}		1200	V
Maximum Continuous forward current, per diode	I_F	$T_c=90^{\circ}\text{C}$	500	A
Single pulse forward current, per diode	I_{FSM}	$t=8.3\text{ms, half sine}$	6500	A
RMS isolation voltage	V_{iso}	AC,, $t=1\text{min}$	3000	V
Maximum junction temperature	T_J		150	$^{\circ}\text{C}$
Storage temperture	T_{stg}		-40 ~ 125	$^{\circ}\text{C}$
Thermal Resistance	$R_{\theta JC}$	Junction-to-Case	0.28	$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anode break down voltage	V _{BR}	I _R =100μA	1200	-	-	V
Forward voltage	V _F	I _F =500A T _J =25°C		1.4	1.7	
		I _F =500A T _J =125°C		-	1.4	
Reverse leakage current	I _R	V _R =V _R rated T _J =25°C		-	20	uA
		V _R =V _R rated T _J =125°C		-	10	mA

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

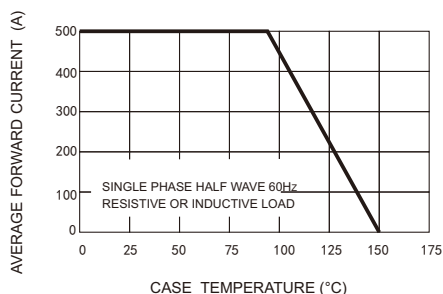


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

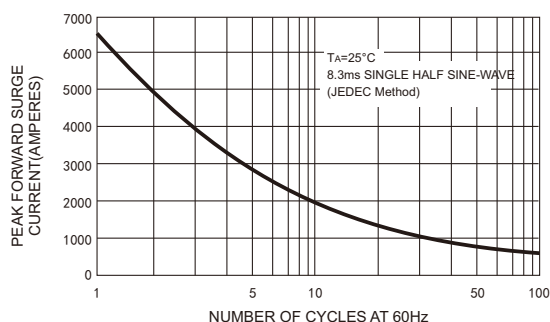


FIG4-TYPICAL FORWARD CHARACTERISTICS

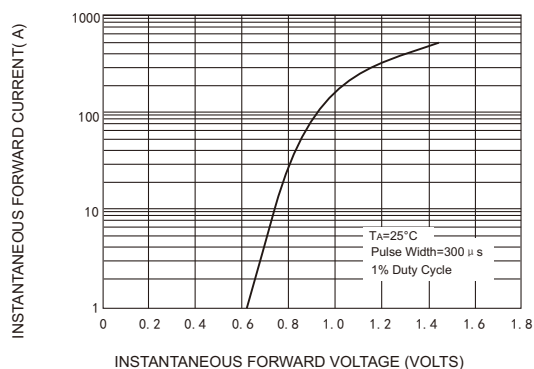
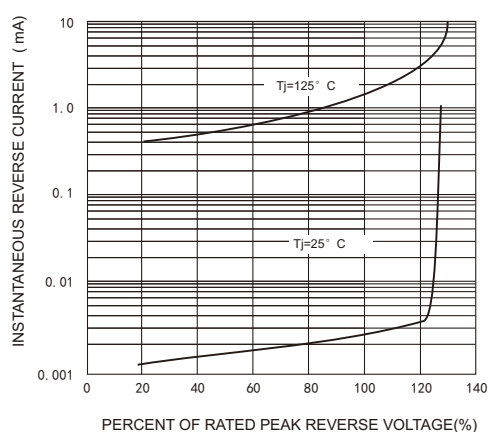
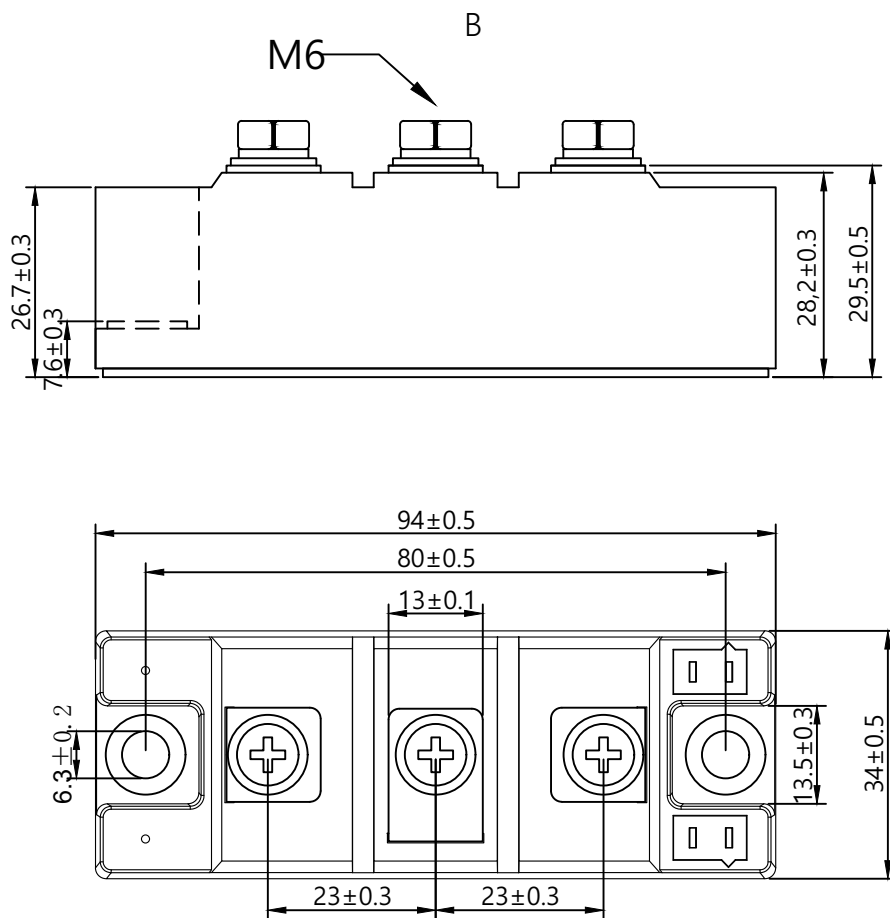


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Outline Information



Dimensions in mm

Ordering Information Tabel

J	B4M	500	-	120
①	②	③	④	

- ① JH' s power module
- ② Circuit configuration, M-High Power Products Diode Modulesr, Circuit-4
- ③ Maximum average forward current , 500A
- ④ Voltage code 1200V

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