

FEATURES

- Blocking voltage: 800 to 1600V
- Low Forward Voltage
- High surge capability
- Component in accordance to RoHS 2015/863/EU

MECHANICAL DATA

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

TYPICAL APPLICATIONS

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

MODULE TYPE

TYPE	VRRM	VRMS	VDC
JA3/JA8/JA9M200-80	800V	560V	800V
JA3/JA8/JA9M200-100	1000V	700V	1000V
JA3/JA8/JA9M200-120	1200V	840V	1200V
JA3/JA8/JA9M200-140	1400V	980V	1400V
JA3/JA8/JA9M200-160	1600V	1120V	1600V

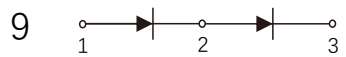
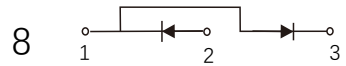
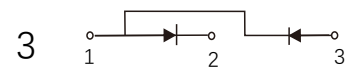
ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Test conditions	Value	Unit
Maximum Continuous forward current, per diode	I_F	$T_c=100^\circ\text{C}$	200	A
Single pulse forward current, per diode	I_{FSM}	$t=8.3\text{ms, half sine}$	5000	A
RMS isolation voltage	V_{iso}	AC, $t=1\text{min}$	3000	V
Maximum junction temperature	T_J		175	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 ~ 175	$^\circ\text{C}$
Power Dissipation	P_D		833	W
Thermal Resistance, per diode	$R_{\theta jc}$	Junction-to-Case	0.18	$^\circ\text{C/W}$

A



Circuit



ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anode break down voltage	VBR	$I_R=100\mu A$	VDC	-	-	V
Forward voltage	VF	$I_F=200A T_J=25^\circ C$		1.0	1.05	
		$I_F=300A T_J=25^\circ C$		-	1.15	
Reverse leakage current	IR	$V_R=V_{DC} T_J=25^\circ C$		-	10	μA
		$V_R=V_{DC} T_J=150^\circ C$		-	5	mA

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

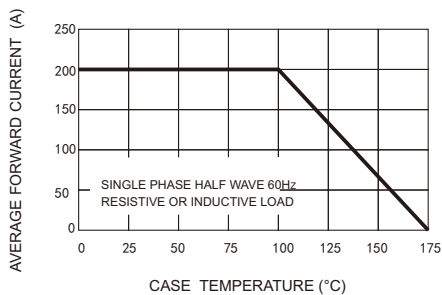


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

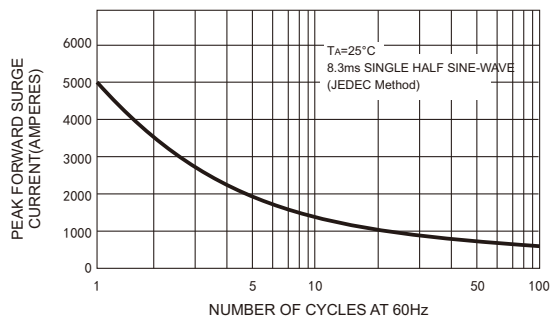


FIG4-TYPICAL FORWARD CHARACTERISTICS

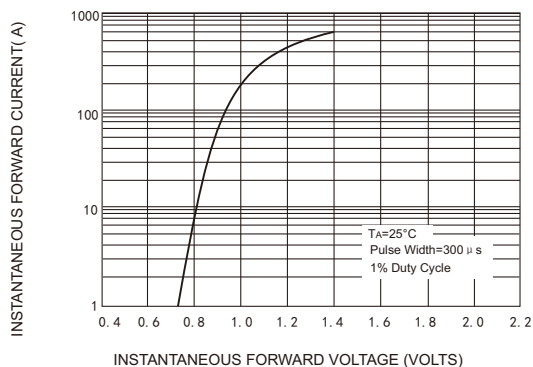
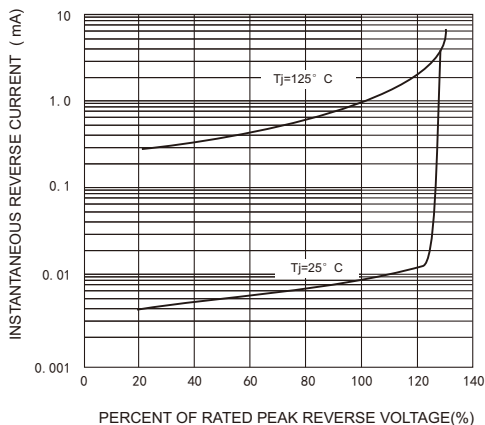
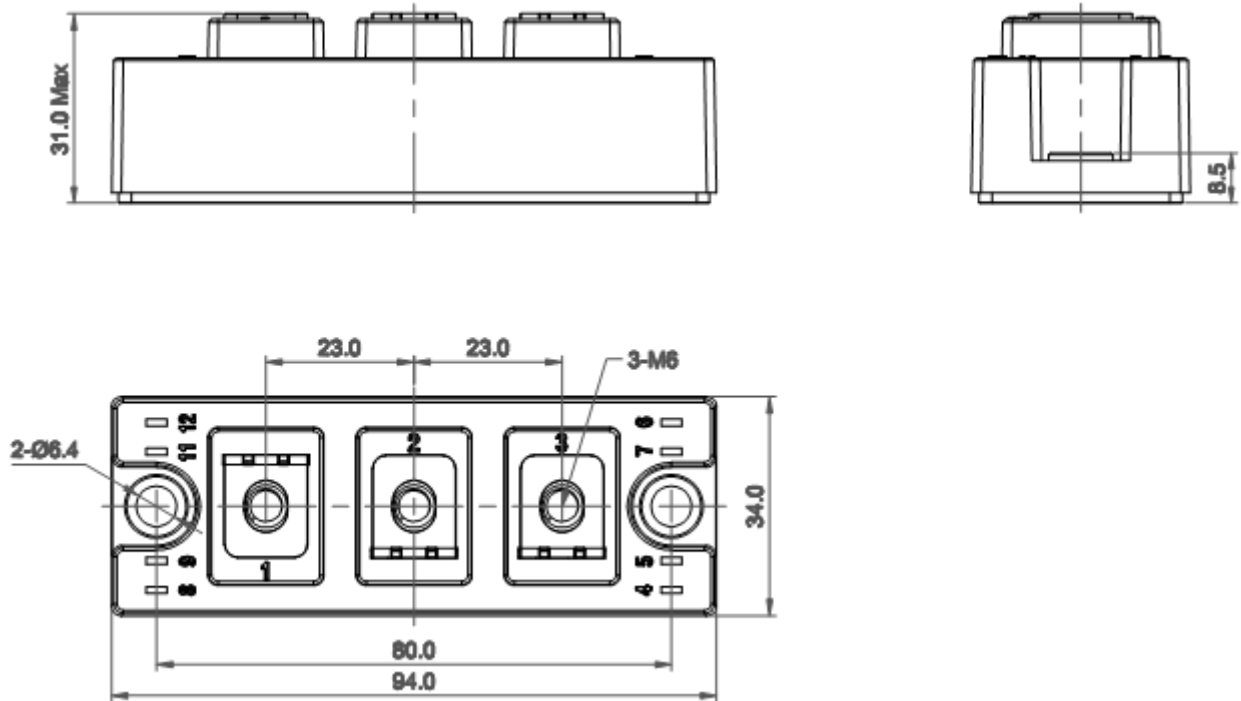


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Outline Information

A



Ordering Information Tabel

J	A3M	200	-	160
①	②	③		④

- ① JH' s power module
- ② Circuit configuration, M-High Power Products Diode Modules
- ③ Maximum average forward current, A
- ④ Voltage code 1600V

Friendship Reminder

- JiNan JingHeng (hereinafter referred to as JH) reserves the right to make changes to this document and its products and specifications at anytime without notice.

- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

- JH makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does JH assume any liability for application assistance or customer product design.

- JH does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

- No license is granted by implication or otherwise under any intellectual property rights of JH.

- JH's products are not authorized for use as critical components in life support devices or systems without express written approval of JH.