

FEATURES

- Blocking voltage: 800 to 2000V
- Low Forward Voltage
- High surge capability
- Component in accordance to RoHS 2015/863/EU

MECHANICAL DATA

- Case: R
- 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
JRXM110-80	800V	560V	800V
JRXM110-120	1200V	840V	1200V
JRXM110-160	1600V	1120V	1600V
JRXM110-180	1800V	1260V	1800V
JRXM110-200	2000V	1400V	2000V

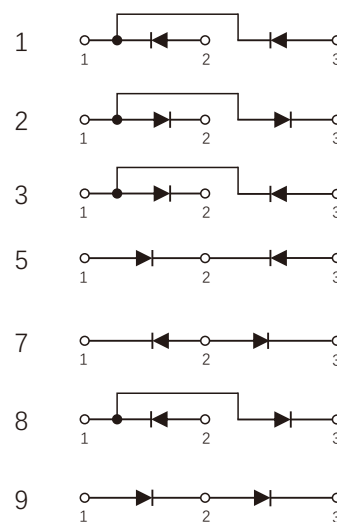
ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Test conditions	Value	Unit
Maximum Continuous forward current, per diode	IF	Tc=85°C	110	A
Single pulse forward current, per diode	IFSM	t=10ms,Tj=45°C	2700	A
RMS isolation voltage	Viso	AC,,t=1min	2500	V
Maximum junction temperature	Tj		150	°C
Storage temperature	Tstg		-40 ~ 125	°C
Maximum I ² t for fusing	I ² t		36500	A ² s
Thermal Resistance,per diode	RθJC	Junction-to-Case	0.26	°C/W

R



X-Circuit



ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	VBR	$I_R=100\mu A$	VDC	-	-	V
Forward voltage	V _F	$I_F=110A$ $T_J=25^{\circ}C$		1.05	1.20	
Reverse leakage current	I _R	$V_R=V_{DC}$ $T_J=25^{\circ}C$		-	20	uA
		$V_R=V_{DC}$ $T_J=150^{\circ}C$		-	5	mA

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

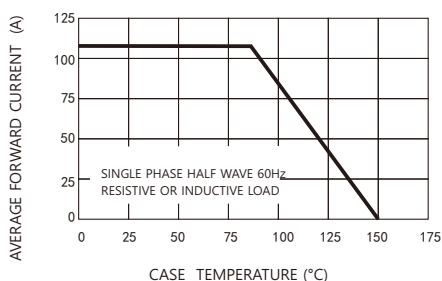


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

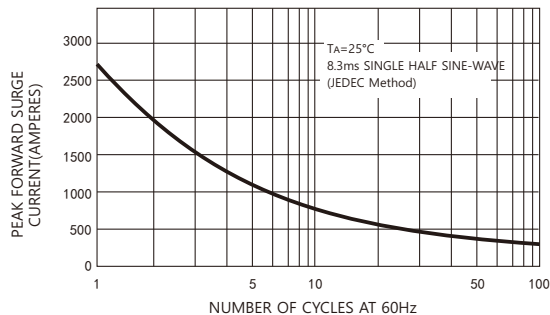


FIG4-TYPICAL FORWARD CHARACTERISTICS

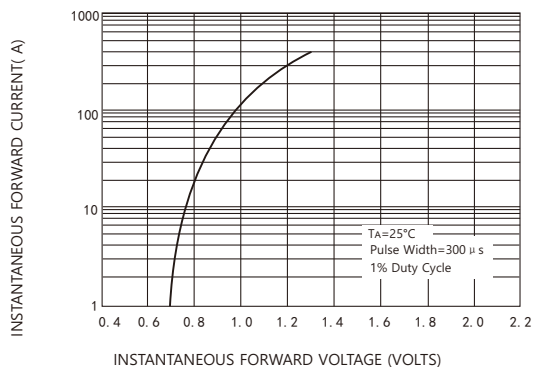
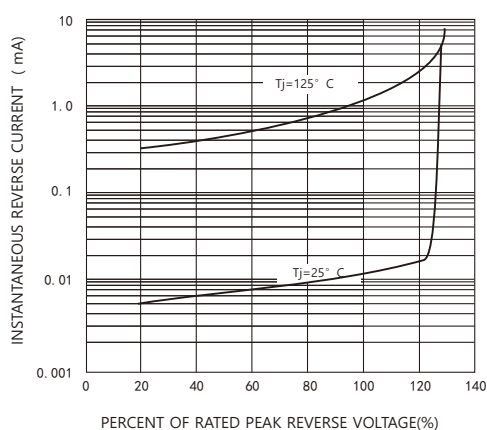
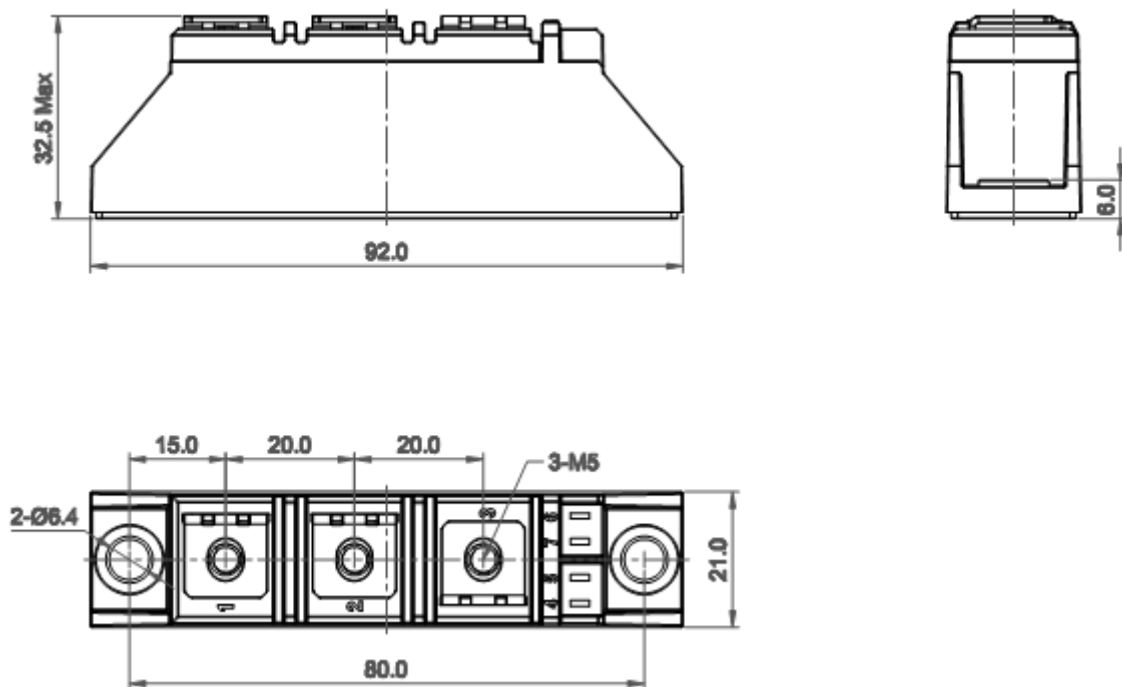


FIG.5-TYPICAL REVERSE CHARACTERISTICS



PackageOutlineInformation

R



Ordering Information Tabel

J	R3M	110	-	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 , 110A
- ④ Voltage code 1600v

FriendshipReminder

- JiNanJingHeng (hereinafterreferredtoasJH) reservestherighttomake changes to this document and its products and specifications at anytime withoutnotice.
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