

S2

FEATURES

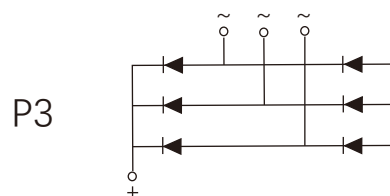
- Blocking voltage: 800 to 1800V
- Three phase bridge rectifier
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Component in accordance to RoHS 2015/863/EU



MECHANICAL DATA

- Case: S2
- Molding compound meets UL94V-0 flammability rating
- Polarity: As marked

Circuit



TYPICAL APPLICATIONS

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Input rectifiers for variable frequency drives

MODULE TYPE

TYPE	VRRM	VRMS	VDC
JS2P3MB100-80	800V	560V	800V
JS2P3MB100-120	1200V	840V	1200V
JS2P3MB100-160	1600V	1120V	1600V
JS2P3MB100-180	1800V	1260V	1800V

ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Test conditions	Value	Unit
Three phase, full wave	IF	Tc=100°C	100	A
Single pulse forward current, per diode	IFSM	t=10ms,Tj=45°C	750	A
RMS isolation voltage	Viso	AC,,t=1min,50HZ	3000	V
Maximum junction temperature	TJ		150	°C
Storage temperature	Tstg		-40 ~ 125	°C
Maximum I²t for fusing	I²t		4200	A²s
Thermal Resistance,per diode	RθJC	Junction-to-Case	1.0	°C/W
Thermal Resistance,module	RθJC		0.07	°C/W

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	V _{BR}	I _R =100μA	V _{DC}	-	-	V
Forward voltage	V _F	I _F =100A T _J =25°C		1.10	1.25	
Reverse leakage current	I _R	V _R =V _{DC} T _J =25°C		-	0.1	
		V _R =V _{DC} T _J =150°C		-	5	mA

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

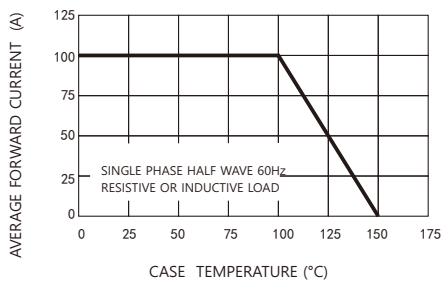


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

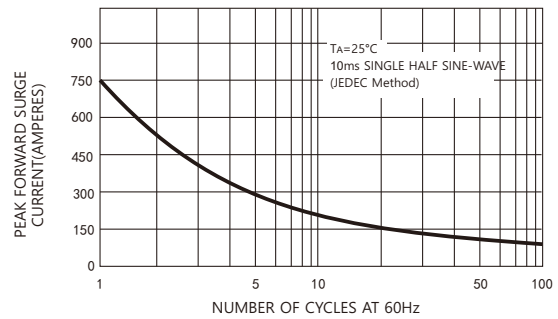


FIG4-TYPICAL FORWARD CHARACTERISTICS

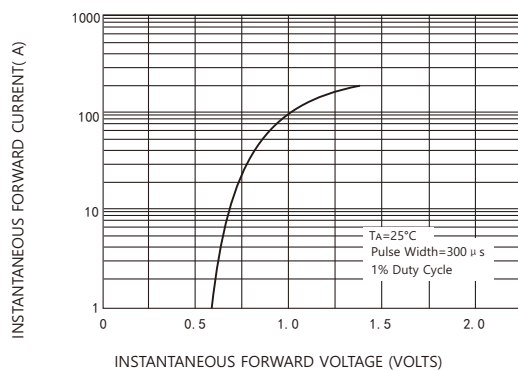
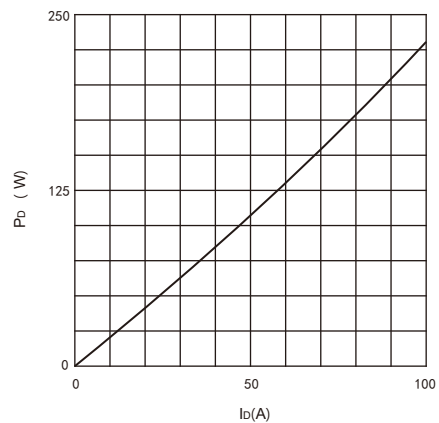
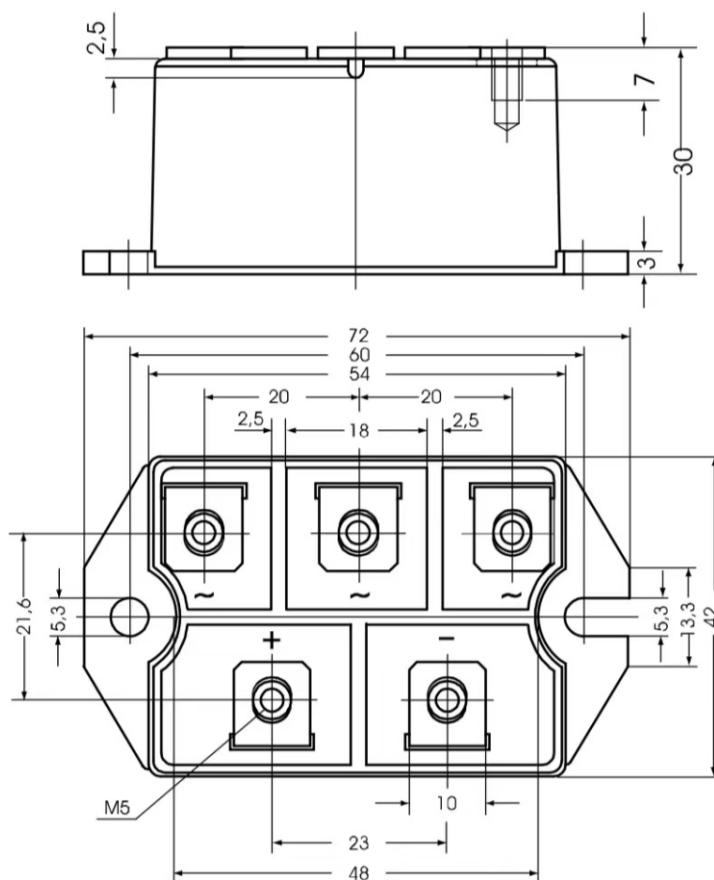


FIG.5-POWER DISSIPATION VS OUTPUT CURRENT



PackageOutlineInformation

S2



Ordering Information Tabel

J	S2P3	MB	100	-	160
①	②	③	④		⑤

- ① JH' s power module
- ② S2 package,Circuit-P3
- ③ MB-Rectifier Bridge Module
- ④ Maximum average forward current , 100A
- ⑤ Voltage code 1600v

FriendshipReminder

■ 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.