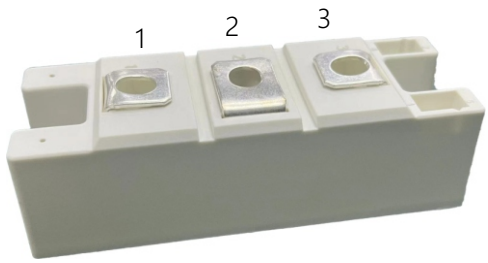
JB8F400-120

Fast Rectifier DiodesModule,2x400A,1200V

FEATURES

- Fast switching for high efficiency
- Low forward voltage drop
- Single rectifier construction
- High surge capability
- Component in accordance to RoHS 2015/863/EU

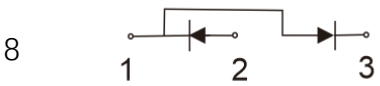
B



MECHANICAL DATA

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

Circuit diagram: 8



TYPICAL APPLICATIONS

- Inversion Welder
- Uninterruptible Power Supply (UPS)
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper
- Power Factor Correction (PFC) 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℃	400	A
Single pulse forward current, per diode	I_{FSM}	t=8.3ms,half sine	3500	A
RMS isolation voltage	Viso	AC,,t=1min	3000	V
Maximum junction temperature	T_J		150	℃
Maximum reverse recovery time	Trr	IF=0.5A,IR=1A,IRR=0.25A	240	nS
Storage temperture	Tstg		-40 ~ 125	℃
Power Dissipation	P_D		1130	W
Thermal Resistance	$R_{\theta JC}$	Junction-to-Case	0.11	℃/W

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	V_{BR}	I_R=100μA	1200	-	-	V
Forward voltage	V_F	I_F=400A T_J=25℃		2.2	2.5	
		I_F=400A T_J=125℃		-	2.3	
Reverse leakage current	I_R	V_R=VRrated T_J=25℃		-	20	uA
		V_R=VRrated T_J=150℃		-	5	mA

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

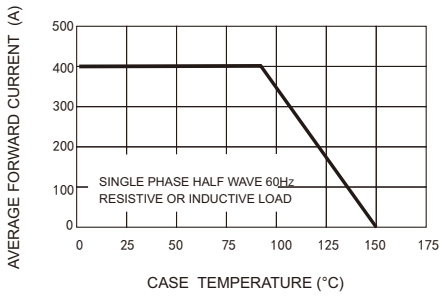


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

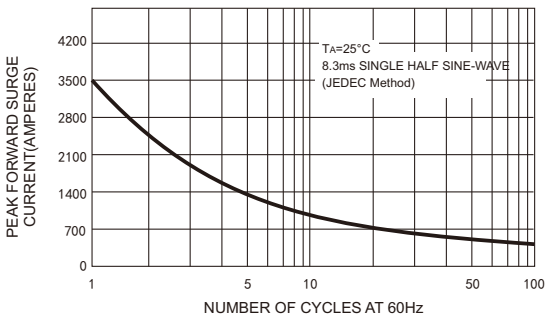


FIG4-TYPICAL FORWARD CHARACTERISTICS

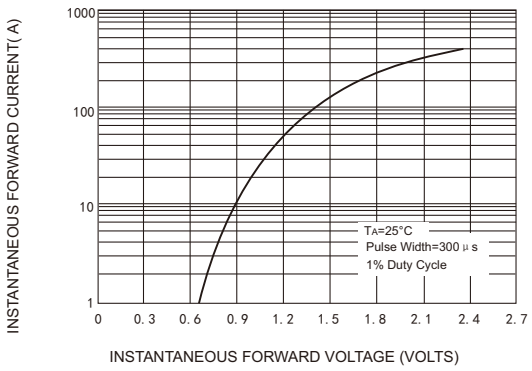
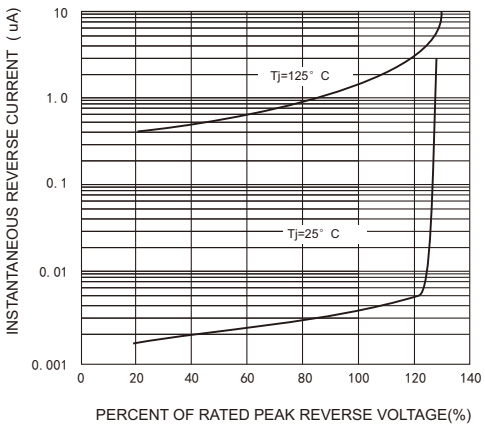
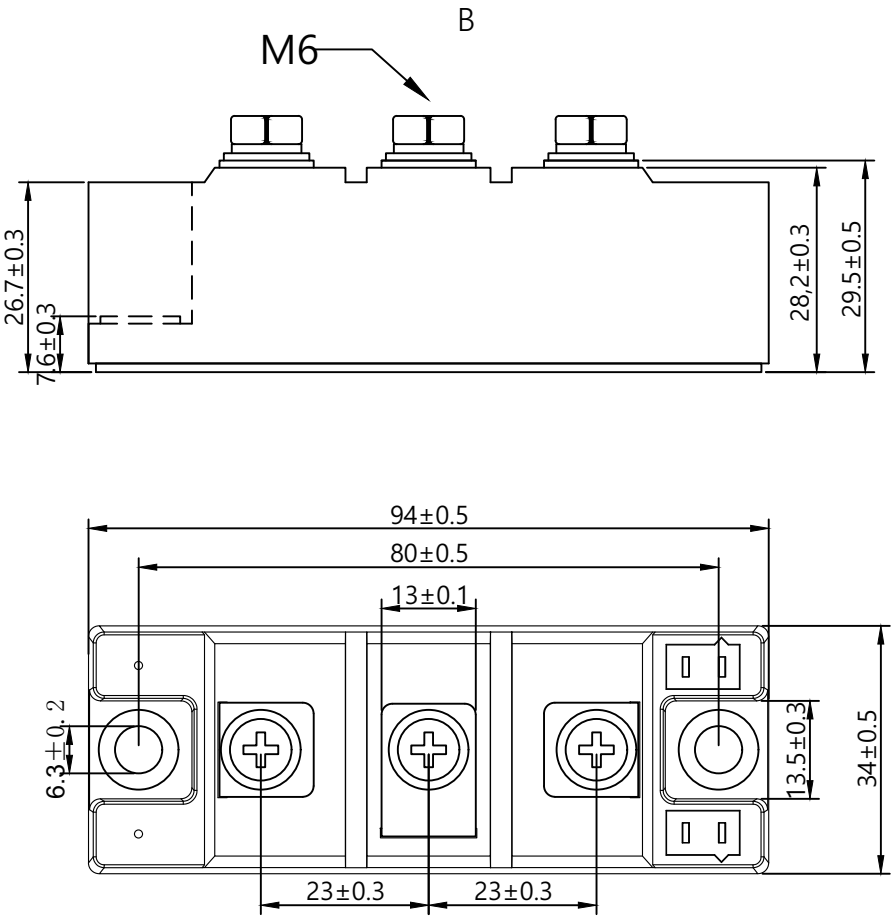


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Outline Information



Dimensions in mm

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