

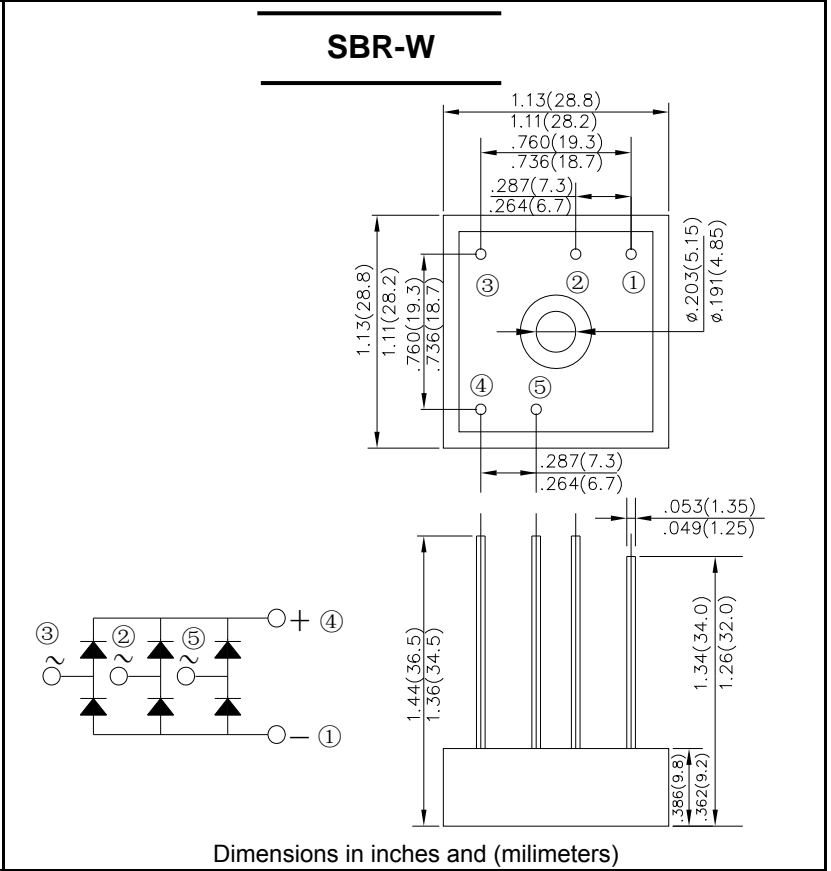
THREE PHASE BRIDGE RECTIFIERS	REVERSE VOLTAGE - 800 to 1600 Volts FORWARD CURRENT - 50 Amperes
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FEATURES

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

MECHANICAL DATA

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Mounting Position:
Bolt Down on Heatsink With Silicone Thermal Compound Between Bridge and Mounting Surface for Maximum Heat Transfer Efficiency
- Mounting Torque: 2 N · m



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

VOLTAGE RATINGS

CHARACTERISTICS	SYMBOL	-08	-10	-12	-14	-16	UNIT
Peak Repetitive Voltage	V_{RRM}						
Working Peak Reverse Voltage	V_{RWM}	800	1000	1200	1400	1600	V
DC Blocking Voltage	V_R						
Peak Non-Repetitive Reverse Voltage	V_{RSM}	900	1100	1300	1500	1700	V
RMS Reverse Voltage	$V_{R(RMS)}$	560	700	840	980	1120	V

FORWARD CONDUCTION

CHARACTERISTICS	SYMBOL	SBR50W	UNIT
Maximum Average Forward Rectified Current @ $T_C=55^\circ C$	I_o	50	A
Peak Forward Surge Current $t=8.3ms$ at 60HZ	I_{FSM}	500	A
I ² t Rating for fusing	$I^2 t$	1037.5	A ² S
Maximum Forward Voltage drop per element at 25A Peak	V_F	1.2	V
Reverse peak current $V_R=V_{RRM}@T_J=25^\circ C$	I_R	5	μA
$V_R=V_{RRM}@T_J=125^\circ C$		3	mA
RMS Isolation Voltage from Case to Lead	V_{ISO}	2500	V

THERMAL CHARACTERISTICS

Operating Temperature Range	T_J	-55 to +150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ C$

FIG.1-MAXIMUM FORWARD SURGE CURRENT

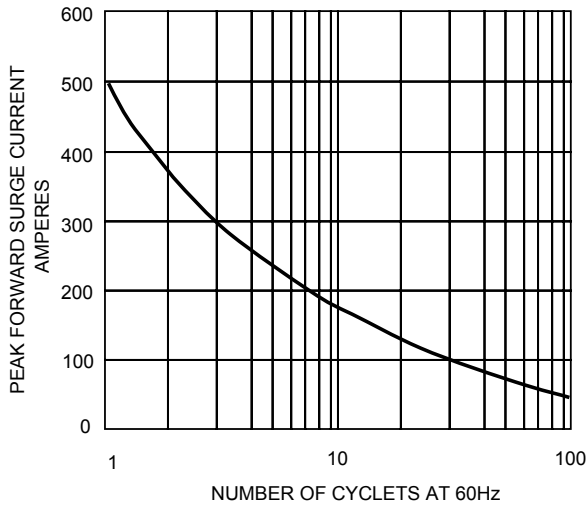


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

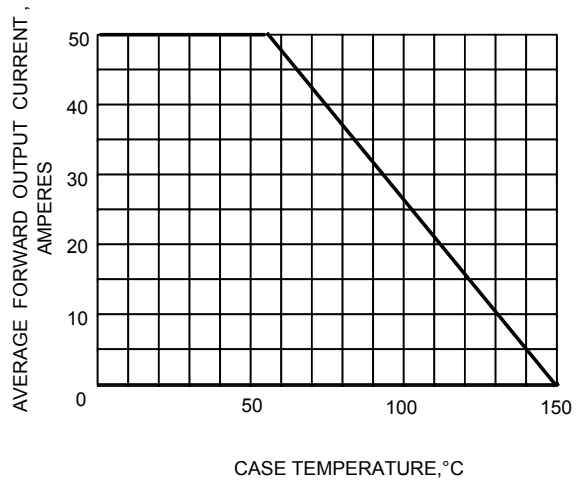


FIG.3-TYPICAL FORWARD CHARACTERISTICS

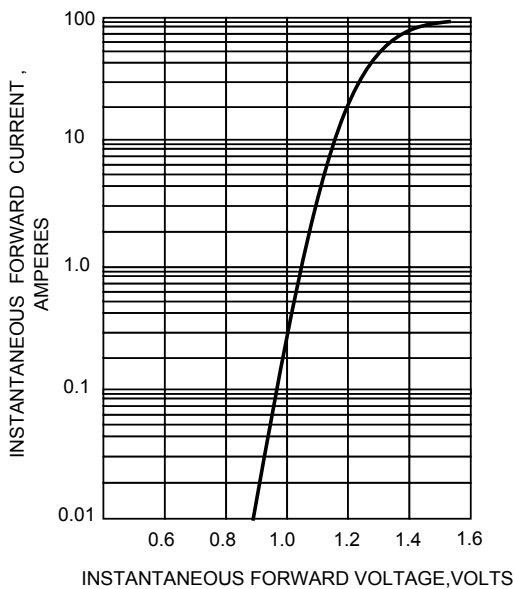
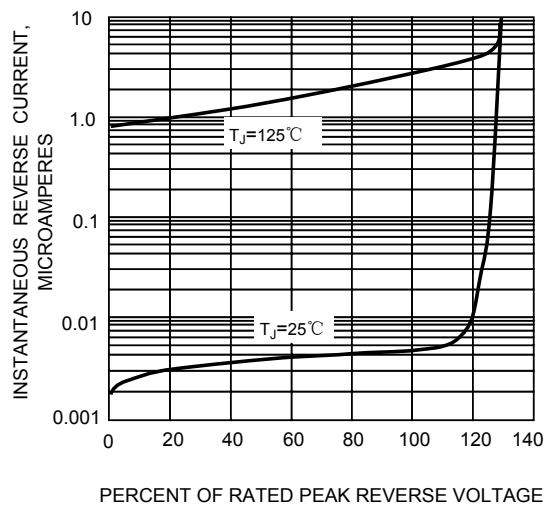


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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