

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 laterally 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					Unit
Characteristics	Symbol	SBR2508W	SBR2510W	SBR2512W	
Peak Repetitive Voltage	V_{RRM}				V
Working Peak Reverse Voltage	V_{RWM}	800	1000	1200	
DC Blocking Voltage	V_R				
Peak Non-Repetitive Reverse Voltage	V_{RSM}	900	1100	1300	
RMS Reverse Voltage	$V_{R(RMS)}$	560	700	840	
Forward Conduction					
Characteristics	Symbol	SBR25W Series			Unit
Maximum Average Forward Rectified Current @ $T_c = 55^\circ C$	I_o	25			A
Peak Forward Surge Current $t=8.3ms$ at 60Hz	I_{FSM}	430			
I^2t Rating for fusing	I^2t	767			A ² S
Maximum Forward Voltage drop per element at 12.5A Peak	V_F	1.1			V
Reverse peak current $V_R=V_{RRM}@T_J=25^\circ C$ $V_R=V_{RRM}@T_J=125^\circ C$	I_R	5 3			μA mA
RMS Isolation Voltage from Case to Lead	V_{ISO}	2500			V
Thermal Characteristics					
Operating Temperature Range	T_J	-55 to +150			°C
Storage Temperature Range	T_{STG}				

Rating and Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

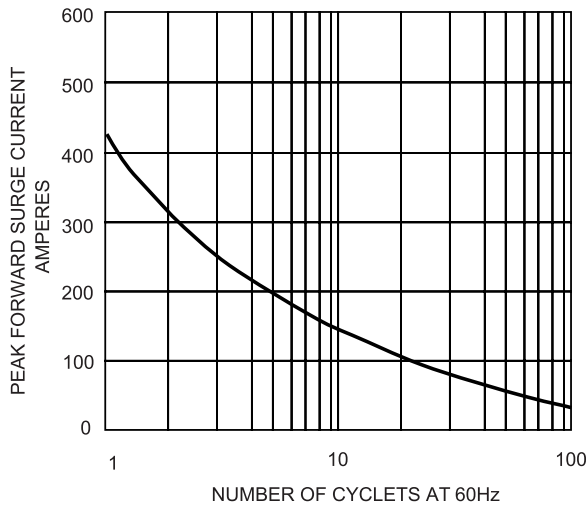


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

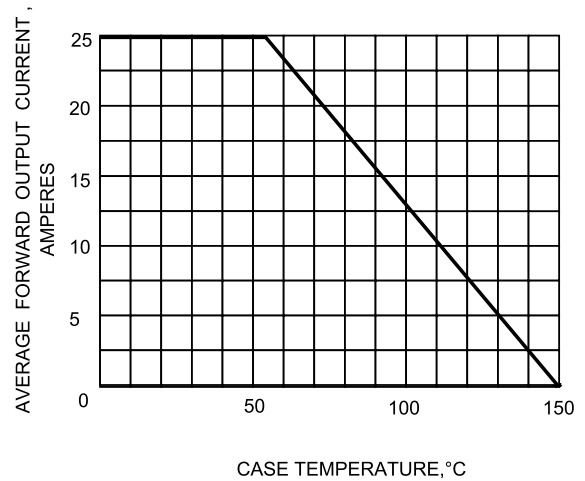


FIG.3-TYPICAL FORWARD CHARACTERISTICS

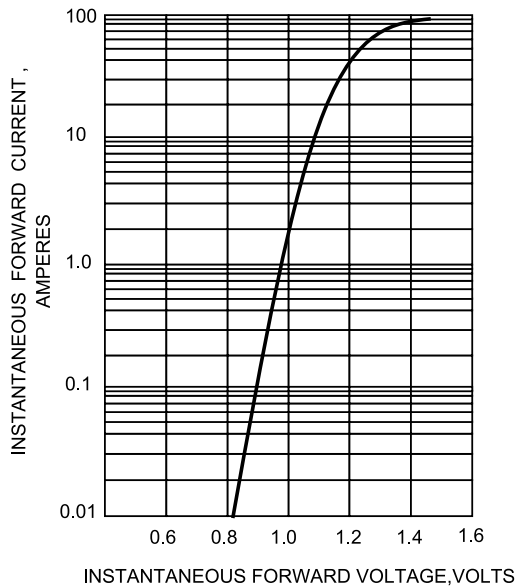
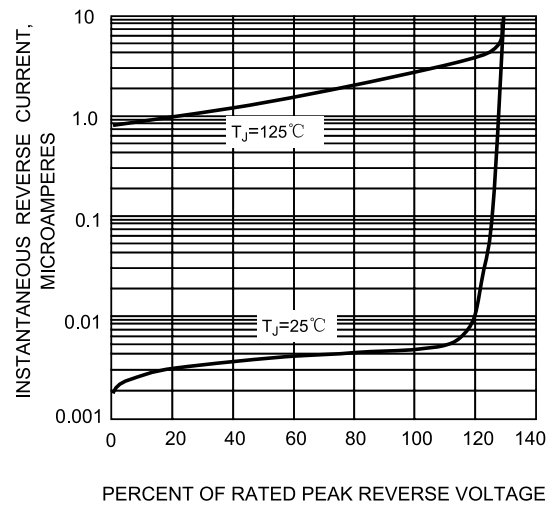


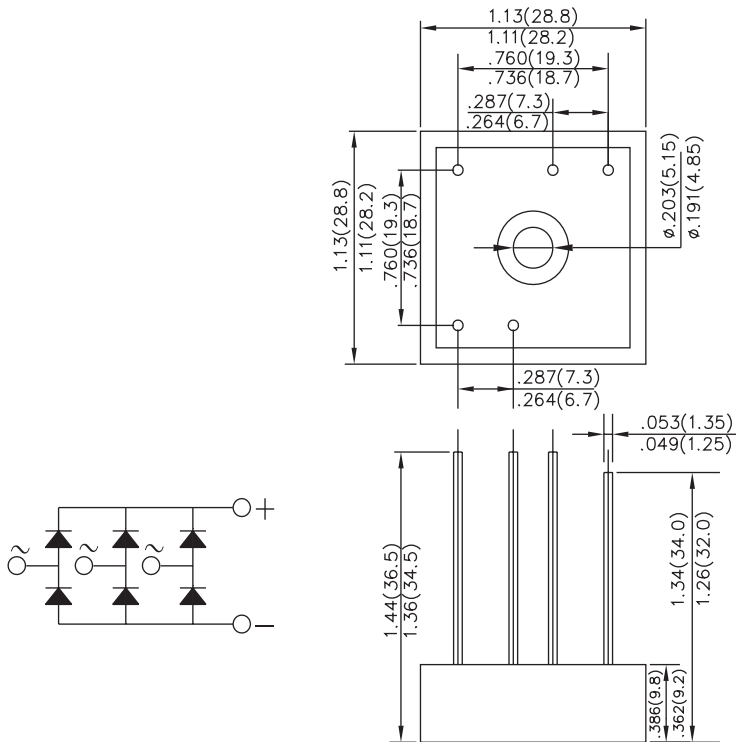
FIG.4-TYPICAL REVERSE CHARACTERISTICS



Three Phase Bridge Rectifier

Dimension:

SBR-W



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Three Phase Bridge 25A 800V Wire Leads SBRW Package	SBR2508W
Three Phase Bridge 25A 1000V Wire Leads SBRW Package	SBR2510W
Three Phase Bridge 25A 1200V Wire Leads SBRW Package	SBR2512W

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