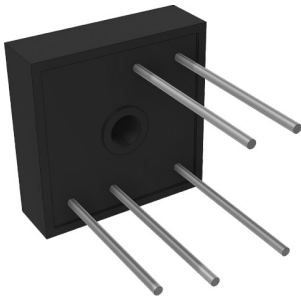


# Three Phase Bridge Rectifier



## 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	SBR3508W	SBR3510W	SBR3512W	
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	SBR35W Series			Unit
Maximum Average Forward Rectified Current @ $T_c = 55^\circ C$	$I_o$	35			A
Peak Forward Surge Current $t=8.3ms$ at 60Hz	$I_{FSM}$	480			
$I^2t$ Rating for fusing	$I^2t$	956			A <sup>2</sup> S
Maximum Forward Voltage drop per element at 12.5A Peak	$V_F$	1.2			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			$\mu A$ 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

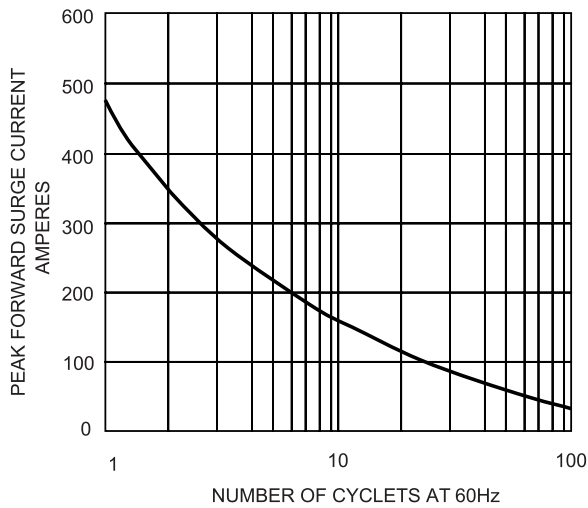


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

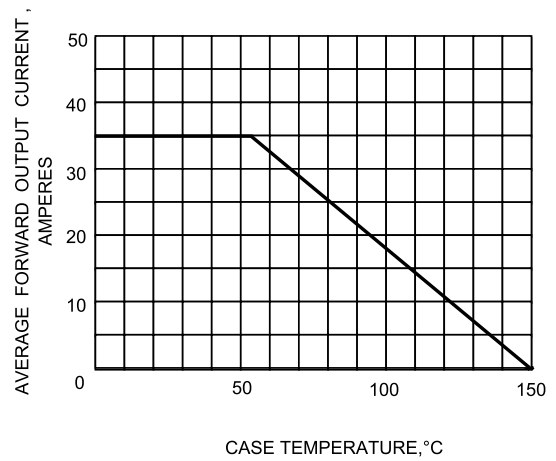


FIG.3-TYPICAL FORWARD CHARACTERISTICS

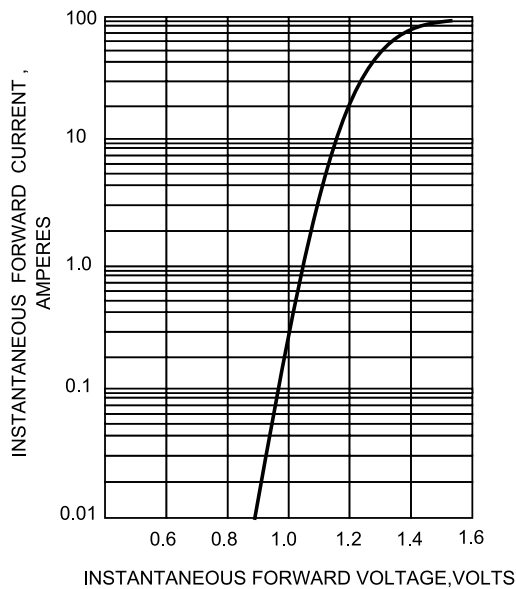
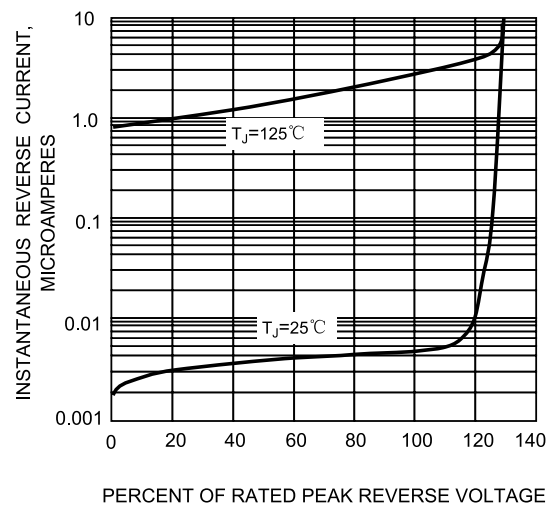


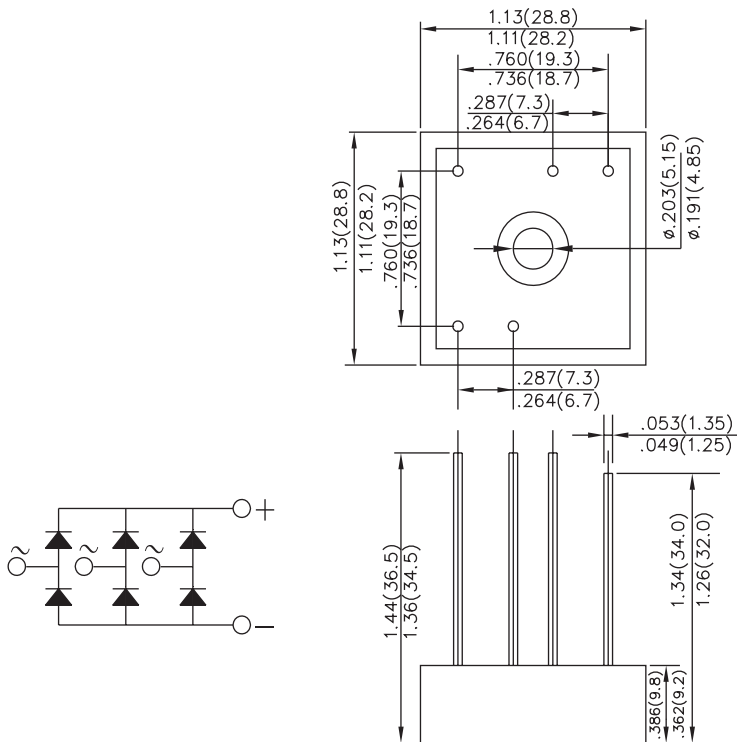
FIG.4-TYPICAL REVERSE CHARACTERISTICS



# Three Phase Bridge Rectifier

**Dimension:**

**SBR-W**



Dimensions : Inches (Millimetres)

**Part Number Table**

Description	Part Number
Three Phase Bridge 35A 800V Wire Leads SBRW Package	SBR3508W
Three Phase Bridge 35A 1000V Wire Leads SBRW Package	SBR3510W
Three Phase Bridge 35A 1200V Wire Leads SBRW Package	SBR3512W

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro  
 Farnell.com/multicomp-pro  
 Element14.com/multicomp-pro