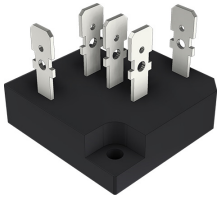


# Glass Passivated 3 Phase Bridge Rectifier

**multicomp** PRO



## Features

- Surge overload - 500 amperes peak
- Low forward voltage drop
- Mounting position : Any
- Weight : 45g

## 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%

Characteristics	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	800	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	560	
Maximum Average Forward Rectified Output Current @ $T_c = 55^\circ\text{C}$	$I_{(AV)}$	50	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	$I_{FSM}$	500	A
Current Squared time ( $1\text{ms} < t < 10\text{ms}$ )	$I^2t$	1037.5	$\text{A}^2\text{S}$
Dielectric Strength	$V_{DIS}$	2000	V
Mounting Torque	TOR	0.8	N.m
Maximum Forward Voltage Drop Per Element at 17.5 A Peak	$V_F$	1.05	V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ $T_A=25^\circ\text{C}$	$I_R$	10	$\mu\text{A}$
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	Max: 0.7	$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$		

- Notes:** 1. Thermal Resistance Junction to case.  
2. The typical data above is for reference only

## Rating and Characteristic Curves

FIG.1-MAXMUN FORWARD SURGE CURRENT

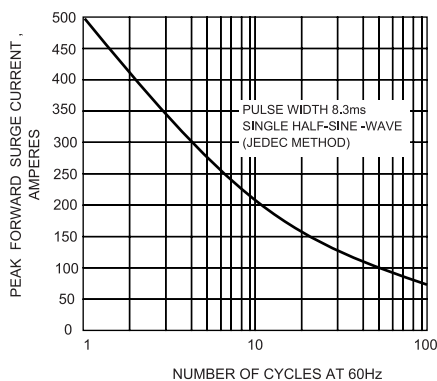
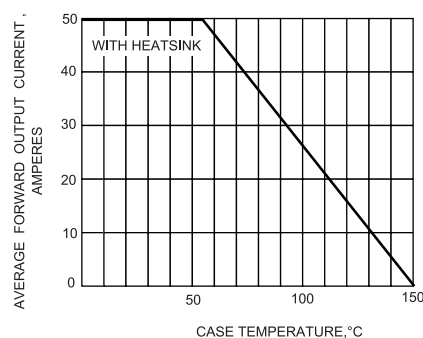


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT



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

**multicomp** PRO

# Glass Passivated 3 Phase Bridge Rectifier

**multicomp** PRO

FIG.3-TYPICAL FORWARD CHARACTERISTICS

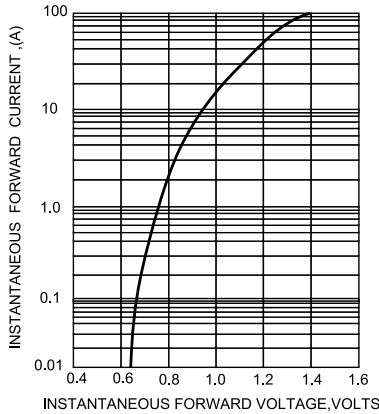
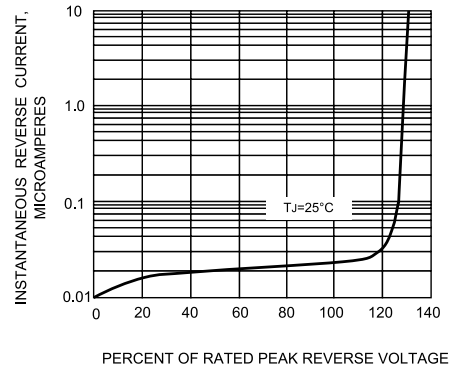
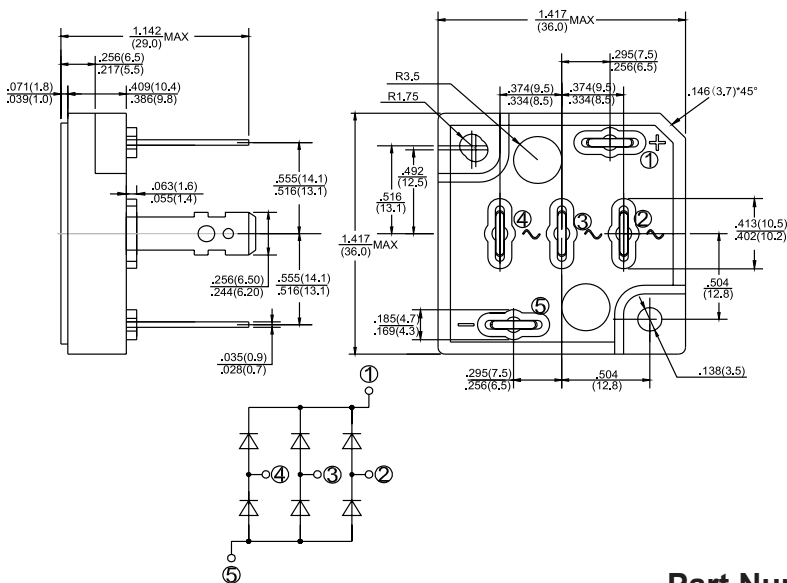


FIG.4-TYPICAL REVERSE CHARACTERISTICS



## Dimension:

**SCVB**



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Three Phase Bridge 50A 800V Faston Lead, SCVB Package	SC50VB80

**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

**multicomp** PRO