Glass Passivated 3 Phase Bridge Rectifier





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	Vrrm	1600	V
Maximum RMS Bridge Input Voltage	VRMS	1120	
Maximum Average Forward Rectified Output Current @ Tc = 55°C	I(AV)	50	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	İFSM	500	A
Current Squared time (1ms <t<10ms)< td=""><td>I²t</td><td>1037.5</td><td>A²S</td></t<10ms)<>	I²t	1037.5	A ² S
Dielectric Strength	VDIS	2000	V
Mounting Torque	TOR	0.8	N.m
Maximum Forward Voltage Drop Per Element at 17.5 A Peak	VF	1.15	V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ Ta=25°C	lR	10	μА
Typical Thermal Resistance (Note1)	Rejc	Max: 0.7	°C/W
Operating Temperature Range	TJ	FE to 1150	°C
Storage Temperature Range	Tstg	-55 to +150	

Notes: 1. Thermal Resistance Junction to case.

2. The typical data above is for reference only

Rating and Characteristic Curves

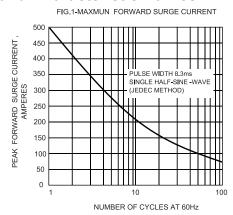
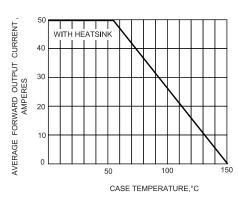


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT



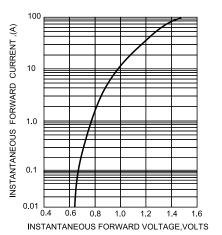
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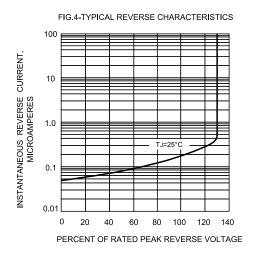


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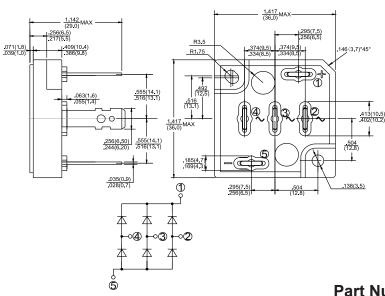
FIG.3-TYPICAL FORWARD CHARACTERISTICS





Dimension:

SCVB



Dimensions: Inches (Millimetres)

Part Number Table

	Part Number	
Three Phase Bridge 50A 1600V Faston Lead, SCVB Package	SC50VB160	

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Page <2> 26/04/17 V1.0