



Glass Passivated 3 Phase Bridge Rectifiers

Reverse Voltage - 1600Volts Forward Current - 35 Amperes

Features

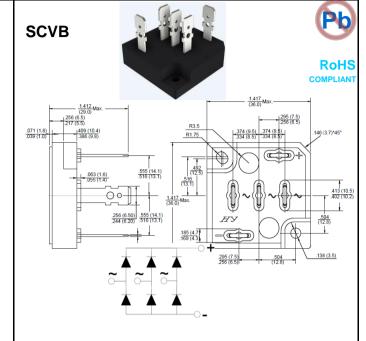
- Low forward voltage drop
- High current capability
- High reliability

Mechanical Data

- Case: Epoxy case with heat sink
- Polarity: Symbol marked on body
- Mounting position:
- Mounting torque: 0.8 N.m

Applications

 For use in high power supply inverters, servo motor and welding machine applications



Package Outline Dimensions in Inches (Millimeters)

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%.

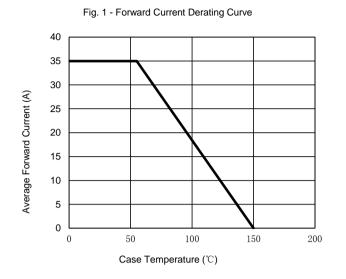
Characteristics	Symbol	SC35VB160	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	1600	V
Maximum RMS Voltage	VRMS	1120	V
Maximum Average Forward Rectified Current @Tc=55 ℃	I(AV)	35	А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	350	А
Superimposed on Rated Load (JEDEC Method) 1 ² t Rating for Fusing (t<8.3mS)	l ² t	508	A ² S
Peak Forward Voltage per Diode at 17.5A DC	VF	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Diode @TJ=25°C	lr	100	μА
Typical Thermal Resistance Junction to Case per Diode	Rejc	0.7	°C/W
Dielectric Strength	Vdis	2000	V
Operating Junction Temperature Range	TJ	-55 to +150	$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150	$^{\circ}$

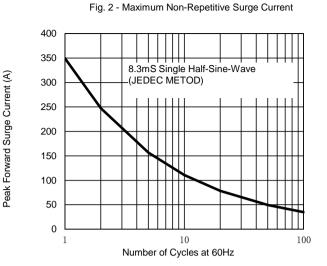
Note: The typical data above is for reference only

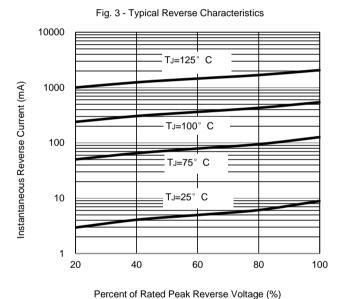
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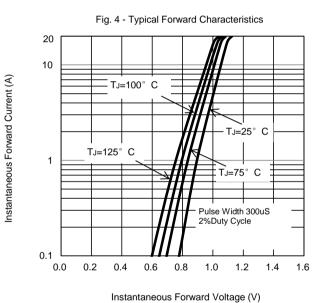
Rev. 9, 22-Apr-2019











The curve above is for reference only.

SC35VB160-B-00/99/92-00/01 Rev. 9, 22-Apr-2019



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Rev. 2, 16-Mar-2017