Glass Passivated Bridge Rectifiers



SC35VB80S-G Thru. SC35VB160S-G

Reverse Voltage: 800V and 1600V

Forward Current: 35A

RoHS Device

Features

- -3 phase bridge rectifiers.
- -Surge overload -350 Amperes peak.
- -Low forward voltage drop.
- -UL recognized file # E349301

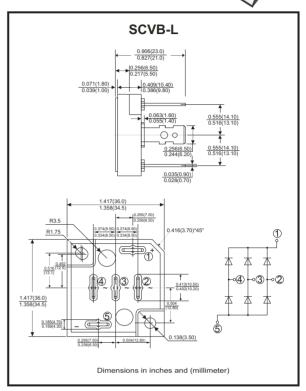


Mechanical Data

-Polarity: As marked on Body.

-Mounting position: Any.

-Weight: 45 grams.



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%

Parameter	Symbol	SC35VB80S-G	SC35VB160S-G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	800	1600	V
Maximum RMS Bridge Input Voltage	V _{RMS}	560	1120	V
Maximum Average Forward Rectified Output Current @Tc=55°C	I _(AV)	35		А
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	İrsm	350		А
Current Squared time (1ms <t<10ms)< td=""><td>I²t</td><td colspan="2">508</td><td>A²s</td></t<10ms)<>	I ² t	508		A ² s
Dielectric Strength	Vdis	2000		V
Mounting Torque	TOR	0.8		N.m
Maximum Forward Voltage Drop Per Element At 12.5A Peak	VF	1.05	1.1	V
Maximum Reverse Current At Rated DC Blocking Voltage Per Element @T _A =25°C	lr	10	100	μА
Typical Thermal Resistance (Note 1)	Reuc	Max: 0.7		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс	-55 to +150		°C

Notes: 1.Thermal Resistance Junction to case.

Company reserves the right to improve product design, functions and reliability without notice.

REV: B Page 1

QW-BBR66

Glass Passivated Bridge Rectifiers



Rating and Characteristics Curves (SC35VB80S-G Thru. SC35VB160S-G)

Fig.1 - Derating Curve Output Rectified Current

(A)

With Heatsink

10

Case Temperature, (°C)

Fig.2 - Typical Forward Characteristics

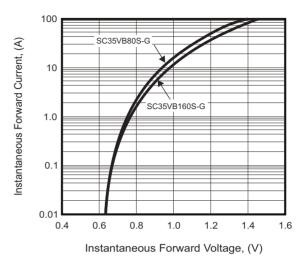


Fig.3 - Maximum Forward Surge Current

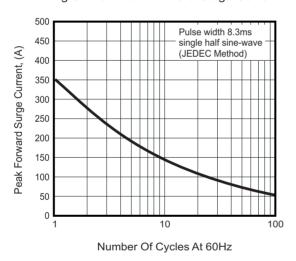
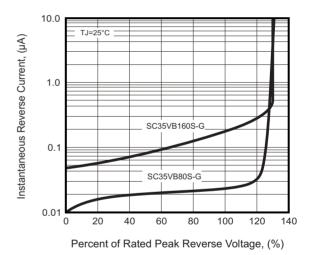


Fig.4 - Typical Reverse Characteristics



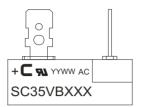
Company reserves the right to improve product design, functions and reliability without notice.

QW-BBR66



Marking Code

Part Number	Marking code	
SC35VB80S-G	SC35VB80	
SC35VB160S-G	SC35VB160	



C = Compchip Logo

YY WW

↓ Weeks of the year

A.D. year latter two figures

XXX = Product type marking code

Standard Packaging

	BULK PACK		
Case Type	BOX (pcs)	CARTON (pcs)	
SCVB-L	25	100	