

Glass Passivated Bridge Rectifiers



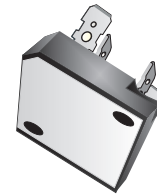
SMD Diodes Specialist

SC35VB80-G

Reverse Voltage: 800V

Forward Current: 35A

RoHS Device

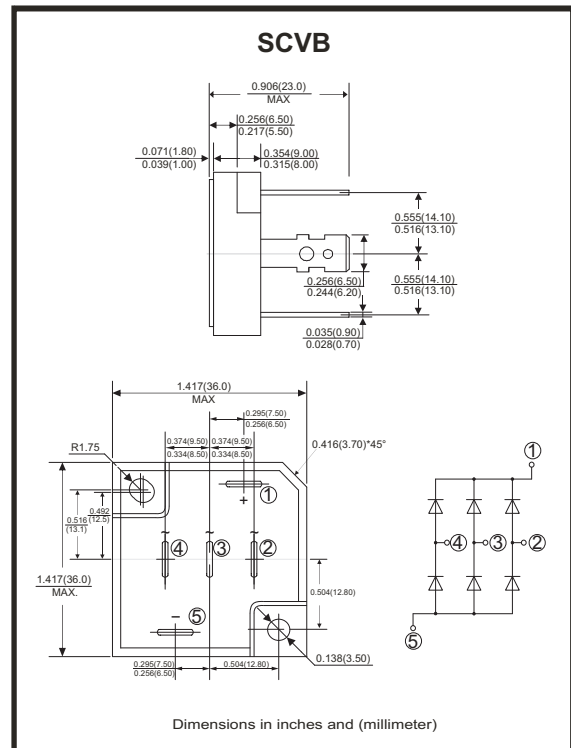


Features

- Surge overload-350 Amperes peak
- Low forward voltage drop
- Materials used carries U/L recognition

Mechanical Data

- Polarit:As marked on Body
- Mounting position:Any
- Weight: 44.5 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	SC35VB80-G	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS Bridge Input Voltage	V_{RMS}	560	V
Maximum Average Forward Rectified Output Current @ $T_c=55^{\circ}C$	$I_{(AV)}$	35	A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	350	A
Current Squared time (1ms< t < 10ms)	I^2t	300	A^2s
Dielectric Strength	V_{dis}	2000	V
Mounting Torque	TOR	0.8	N.m
Maximum Forward Voltage Drop Per Element At 12.5A Peak	V_F	1.05	V
Maximum Reverse Current At Rated DC Blocking Voltage Per Element @ $T_A=25^{\circ}C$	I_R	10	μA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	Max: 0.7	$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

Notes:

1. Thermal Resistance Junction to case.

REV:A

Rating and Characteristics Curves (SC35VB80-G)

Fig.1- Dearting Current Output Rectified Current

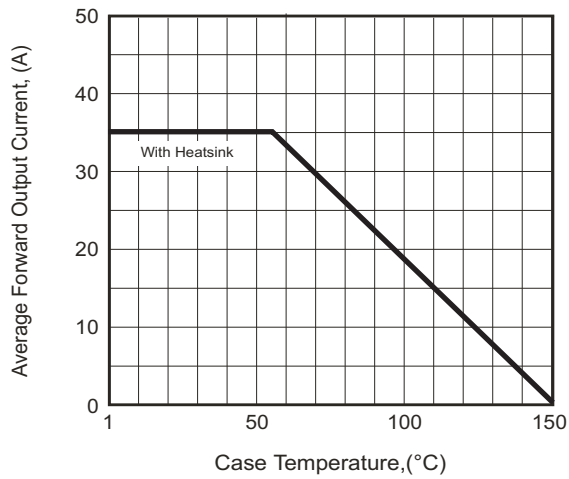


Fig.2- Typical Forward Characteristics

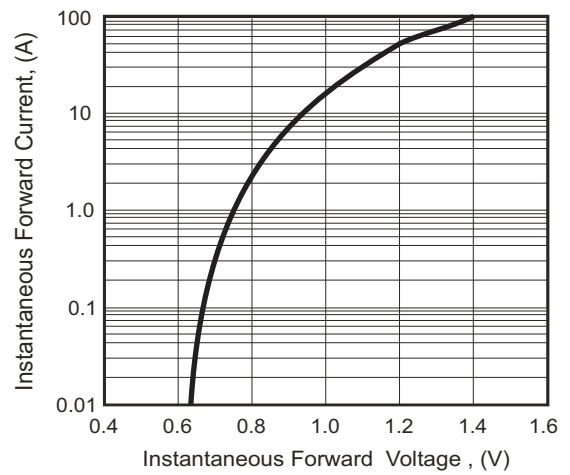


Fig.3- Maximum Forward Surge Current

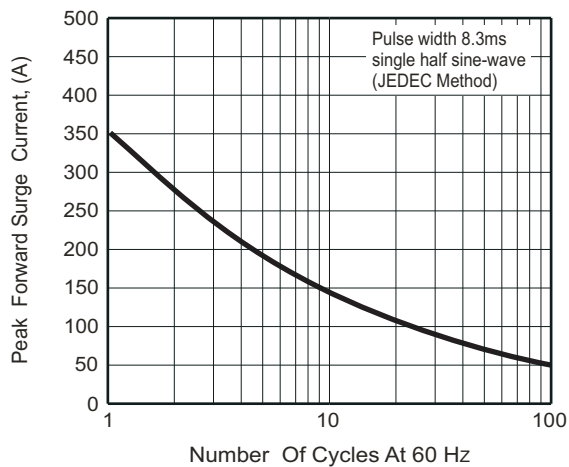
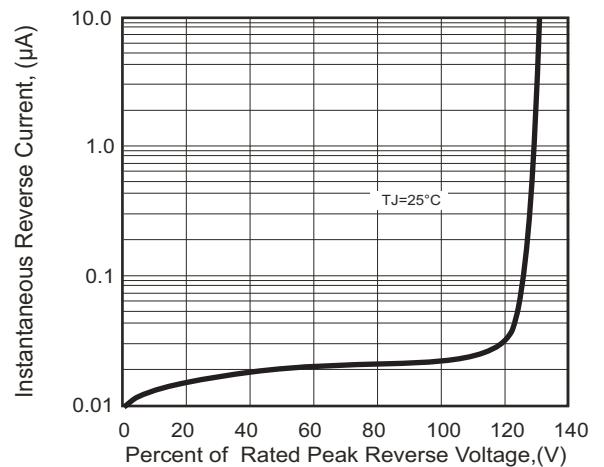
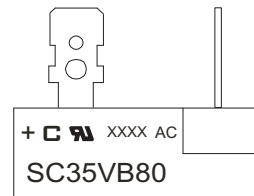


Fig.4- Typical Reverse Characteristics



Marking Code

Part Number	Marking code
SC35VB80-G	SC35VB80



XX XX
↓ ↘ Weeks of the year
A.D. year latter two figures
C = Compchip Logo

Standard Package

BULK PACK

Case Type	BULK PACK (B/P)		
	Box (EA)	Box / Carton (EA)	CARTON (EA)
SCVB	25	4	100