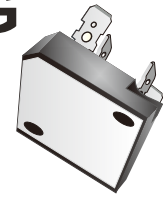


SC35VB80S-G Thru. SC35VB160S-G

Reverse Voltage: 800V and 1600V

Forward Current: 35A

RoHS Device

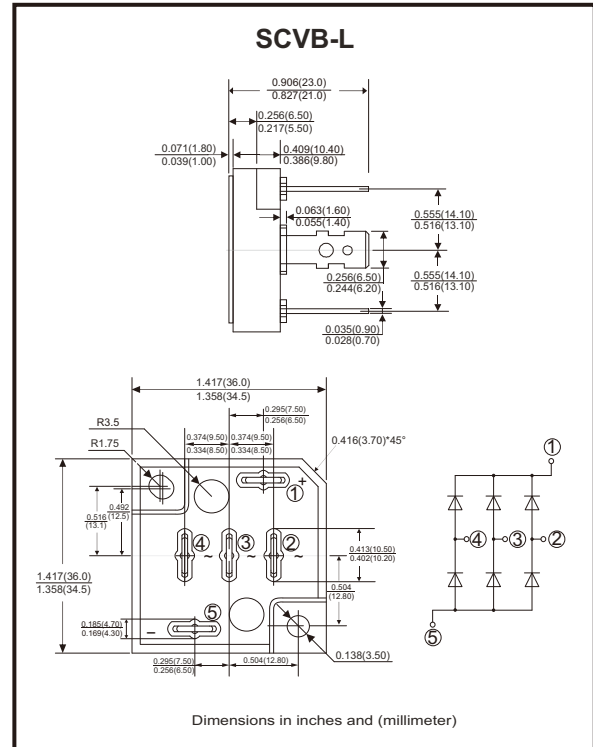


Features

- 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 (approx.).



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 @ $T_c=55^\circ\text{C}$	$I_{(AV)}$	35		A
Peak forward surge current, 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method)	I_{FSM}	350		A
Current squared time ($1\text{ms} < t < 10\text{ms}$)	I^2t	508		A ² s
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	1.1	V
Maximum reverse current at rated DC blocking voltage per element @ $T_A=25^\circ\text{C}$	I_R	10	100	μA
Typical thermal resistance (Note 1)	$R_{\theta JC}$	Max: 0.7		$^\circ\text{C/W}$
Operating temperature range	T_J	-55 to +150		$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150		$^\circ\text{C}$

Notes: 1. Thermal resistance junction to case.

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

Fig.1 - Derating Curve Output Rectified Current

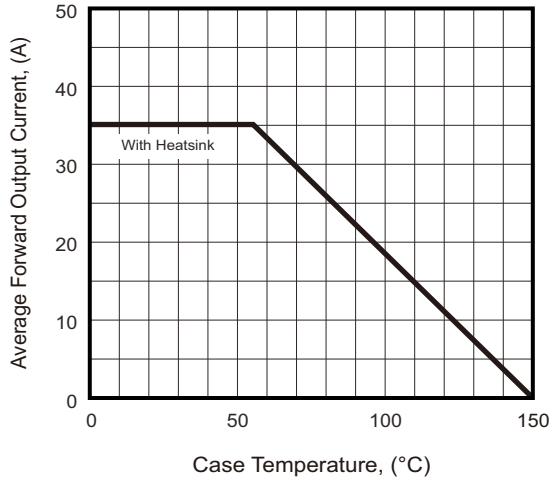


Fig.2 - Typical Forward Characteristics

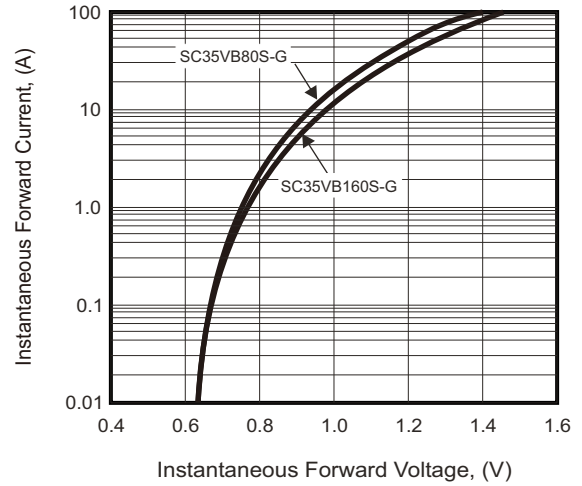


Fig.3 - Maximum Forward Surge Current

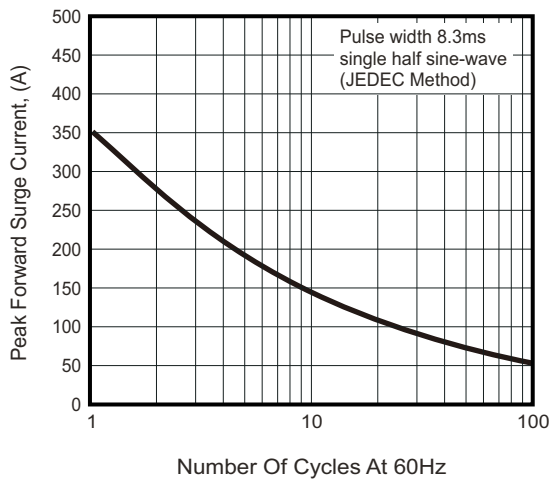
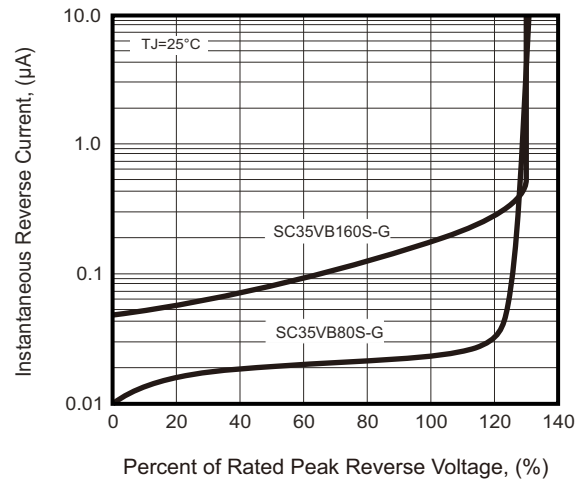
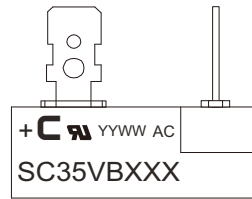


Fig.4 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code
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

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
SCVB-L	20	100