

S25VB005 THRU S25VB100

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 25 Ampere

FEATURES

- ◆ Rating to 1000V PRV
- ◆ High efficiency
- ◆ Glass passivated chip junction
- ◆ Electrically isolated metal case for maximum heat

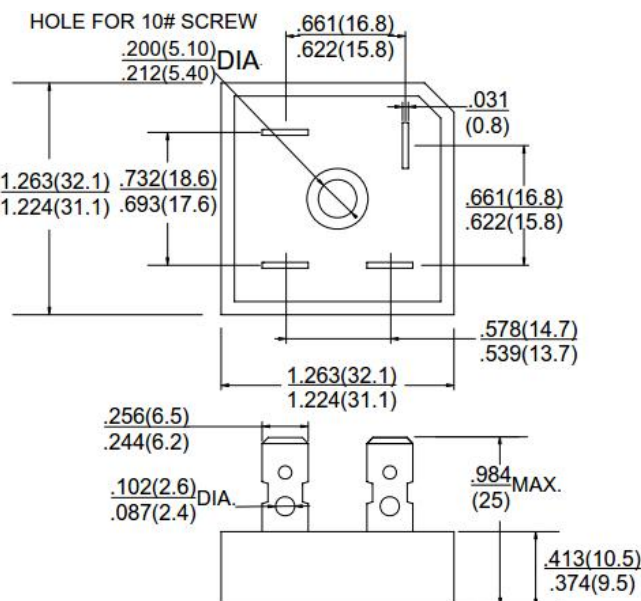
Dissipation

- ◆ The plastic material has UL flammability classification 94V-0

- ◆ Electrically isolated base-2500 Volts

Mechanical Data

- ◆ Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation
- ◆ Polarity : As marked on Body
- ◆ Mounting : Hole for # 10 screw
- ◆ Weight : 0.70 ounces , 20 grams (terminal)

S35**Dimensions in inches and (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%**

PARAMETER	SYMBOL	S25VB 005	S25VB 10	S25VB 20	S25VB 40	S25VB 60	S25VB 80	S25VB 100	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RRM}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_c = T_a$	$I_{(AV)}$	25.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	I_{FSM}	350							A
Maximum Forward Voltage at 12.5A DC	V_F	1.05							V
Maximum DC Reverse Current @ $T_J = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_J = 125^\circ\text{C}$	I_R	5.0 500							μA
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	370							A^2S
Typical Junction Capacitance per element (Note 2)	C_J	150							pF
Typical Thermal Resistance	$R_{\theta JC}$	1.4							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

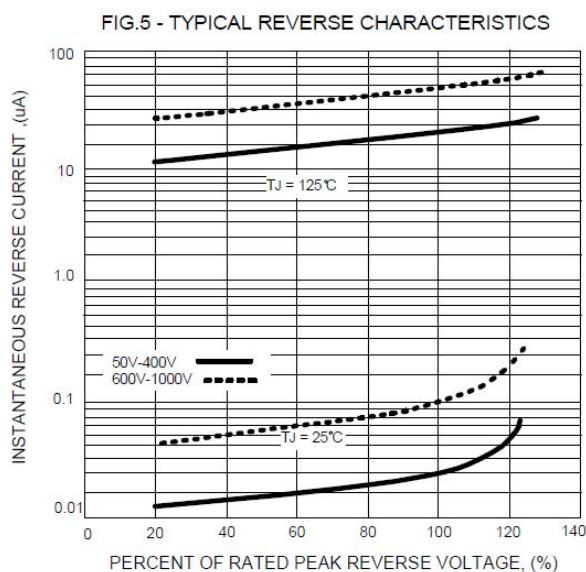
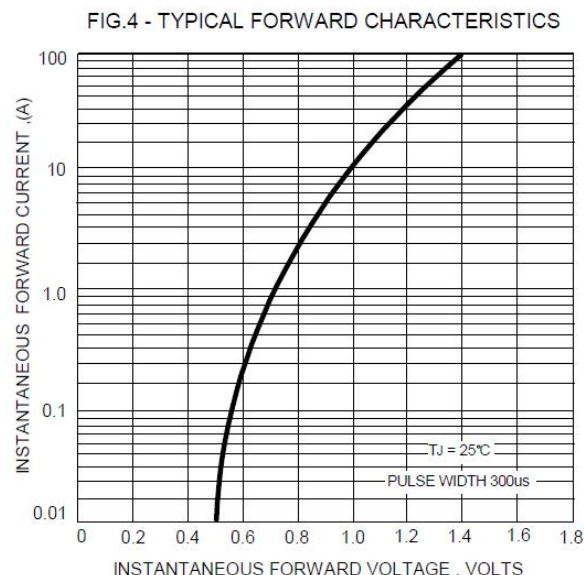
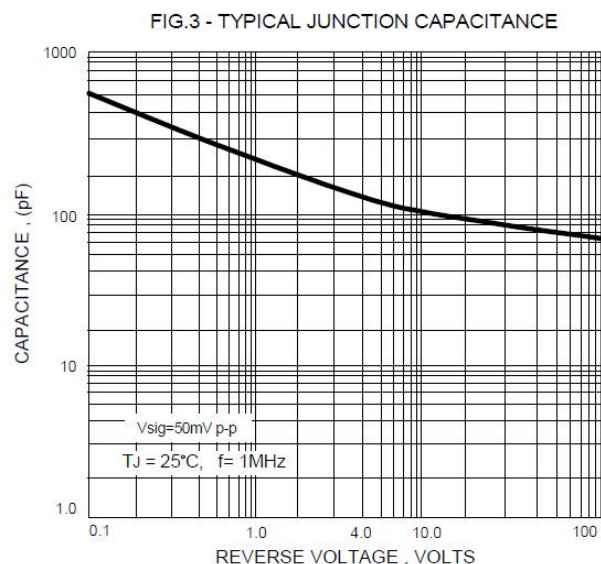
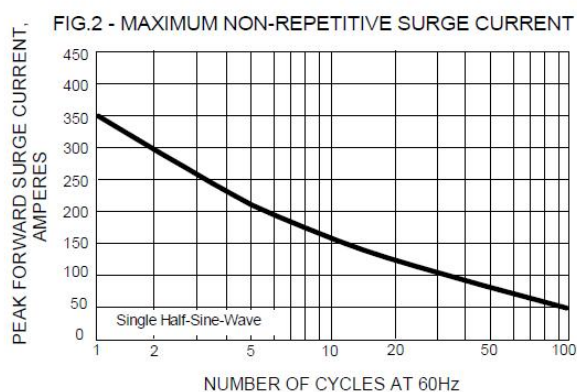
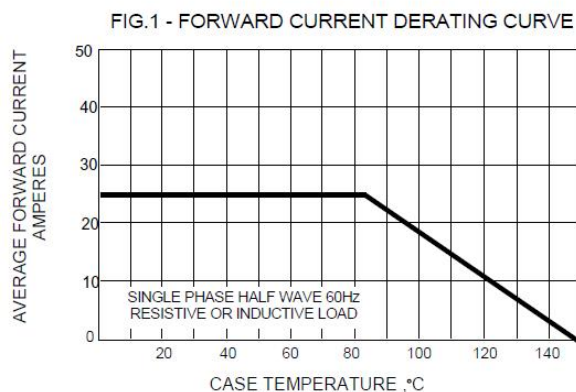
Note: 1. Measured at non-repetitive, for greater than 1ms and less than 8.3ms

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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RATING AND CHARACTERISTIC CURVES S25VB005 THRU S25VB100



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.