

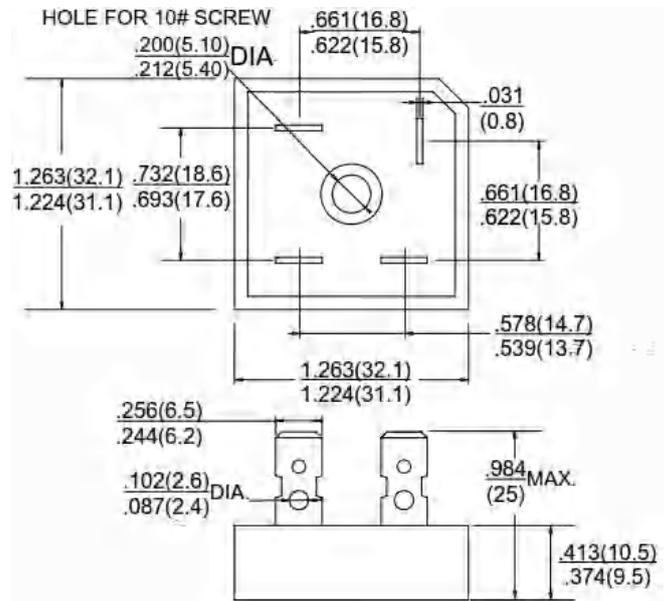
CURRENT 25 Ampere
 VOLTAGE RANG 50~1000 Volts

S25VB005 THRU S25VB100

S- VB

FEATURES

This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
 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 VIots



Dimensions in inches and (millimeters)

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)

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 @ $T_j=25^\circ C$ atrated DC blocking voltage @ $T_j=125^\circ C$	I_R	5.0							μA
I^2t Rating for Fusing($t<8.3ms$)	I^2t	370							A^2S
Typical Junction Capacitance per element (Note 2)	C_J	150							pF
Typical Thermal Resistance	$R_{\theta JC}$	1.4							$^\circ C/W$
Operating Temperature Range	T_j	-55 to +150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

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 (TA=25°C Unless otherwise noted)

