CURRENT 35 Ampere
VOLTAGE RANG 50~1000 Volts

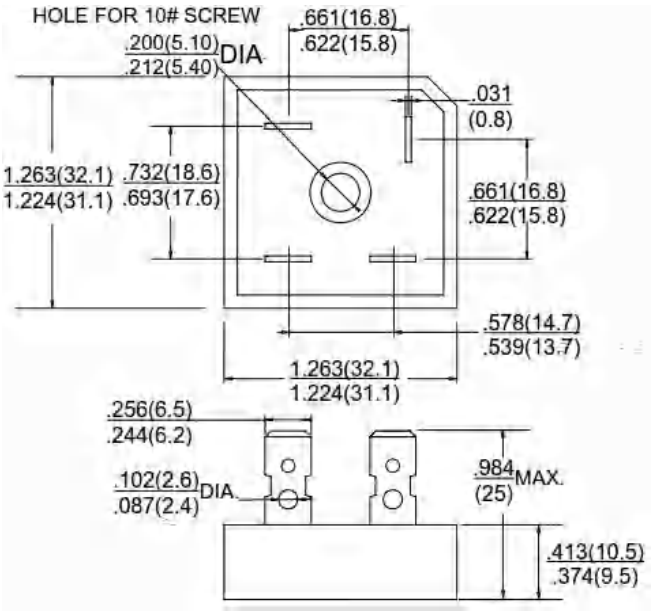
S35VB005 THRU S35VB100

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 Vlots



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℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	S35VB 005	S35VB 10	S35VB 20	S35VB 40	S35VB 60	S35VB 80	S35VB 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 @Tc=Ta	$I_{(AV)}$	35.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	I_{FSM}	400							A
Maximum Forward Voltage at 17.5A DC	V_F	1.05							V
Maximum DC Reverse Current @ T_J=25℃ atrated DC blocking voltage @ T_J=125℃	I_R	5.0 500							μA
I^2t Rating for Fusing(t<8.3ms)，(Note 1)	I^2t	660							A^2S
Typical Junction Capacitance per element (Note 2)	C_J	150							pF
Typical Thermal Resistance	$R_{\theta JC}$	1.4							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

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)

FIG.1 - FORWARD CURRENT DERATING CURVE

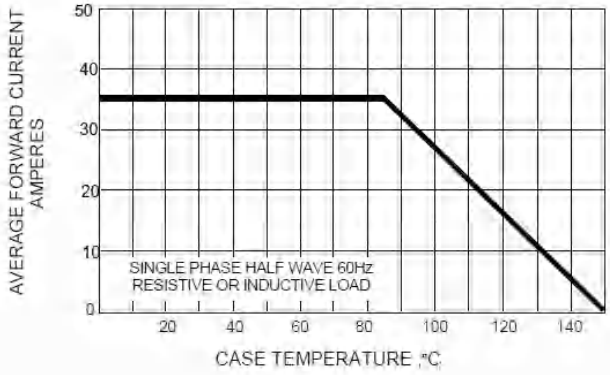

FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

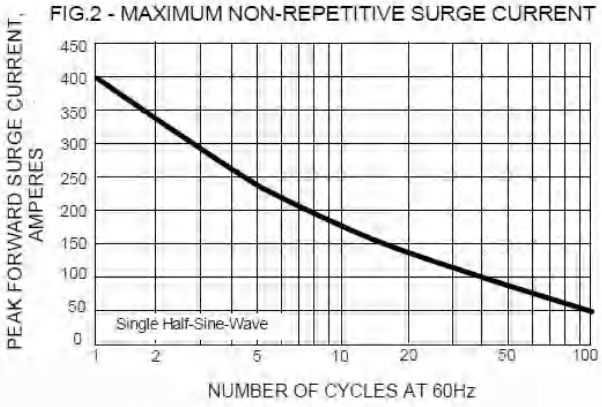

FIG.3 - TYPICAL JUNCTION CAPACITANCE

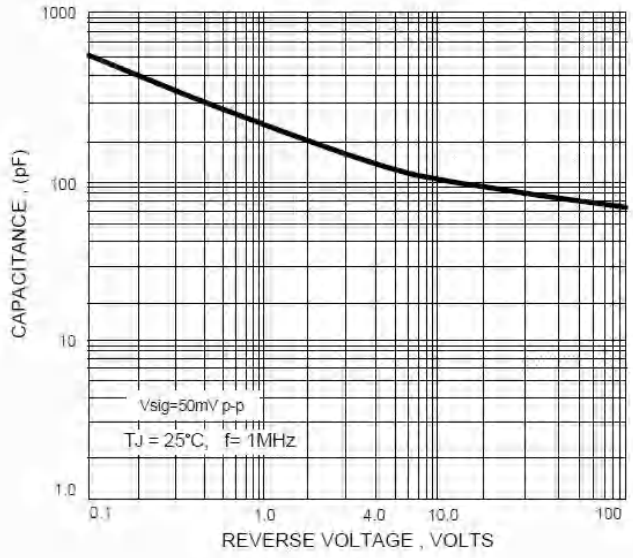

FIG.4 - TYPICAL FORWARD CHARACTERISTICS

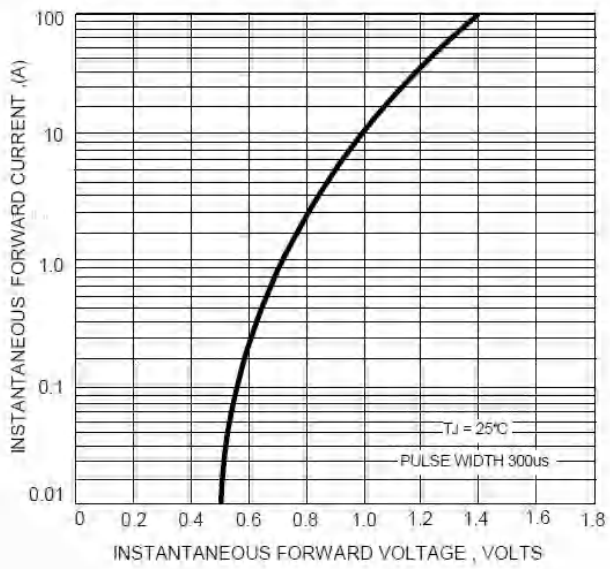

FIG.5 - TYPICAL REVERSE CHARACTERISTICS