



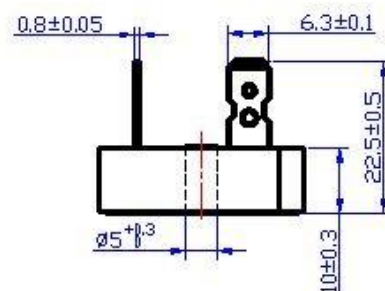
S25VB10 THRU S25VB100

VOLTAGE RANGE 100to 1000 Volts
CURRENT 25 Ampere



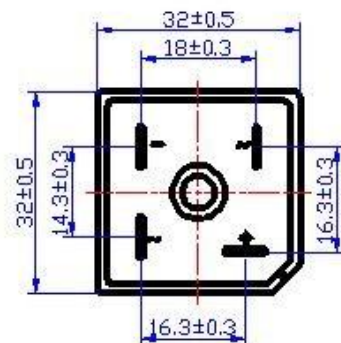
Features

- 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 Vlots



Mechanical Data

- Case: Molded plastic with Heatsink internally mounted in the bridge encapsulation
- Polarity: As marked on Body
- Mounting: Hole for # 10 screw
- Weight: 0.47 ounces, 13.4 grams (wire)



Maximum Ratings and Electrical Characteristics

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

TYPE NUMBER	SYMBOL	S25 VB10	S25 VB20	S25 VB40	S25 VB60	S25 VB80	S25 VB100	UNIT
Maximum Reverse Peak Repetitive Voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at $T_C = T_A$	$I_{(AV)}$	12.5						Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load	I_{FSM}	400						Amps
Rating for Fusing ($t < 8.3ms$) (Note1)	I^2t	800						A ² s
Maximum Instantaneous Forward Voltage drop Per Bridge element 12.5A	V_F	1.1						Volts
Maximum Reverse Current at rated DC blocking voltage per element	$T_A=25^\circ C$	5.0						μ Amps
	$T_A=125^\circ C$	500						
Mounting Torque (Recommended torque:0.5 N.m)	T_{OR}	2.0						N.m
Typical Thermal Resistance (NOTE 2)	$R_{\theta JC}$	0.9						$^\circ C/W$
Dielectric Strength (NOTE 3)	V_{DIS}	2.5						kVolts
Operating Temperature Range	T_J	150						$^\circ C$
Storage Temperature Range	T_{STG}	-40 to +150						$^\circ C$

Notes:

1. Measured at non-repetitive, for greater than 1ms and less than 8.3ms.
2. Device mounted on 300mm×300mm×1.6mm Cu Plate Heatsink.
3. 50Hz, R.M.S, t=1min, Iiso:1mA(max)



S25VB10 THRU S25VB100

VOLTAGE RANGE 100to 1000 Volts
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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1-FORWARD CURRENT DERATING CURVE

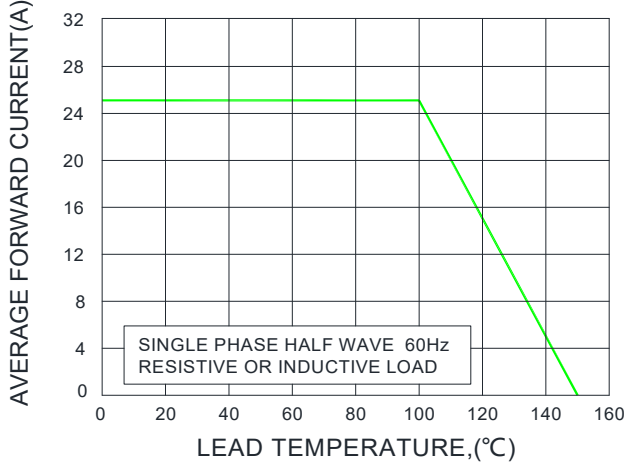


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

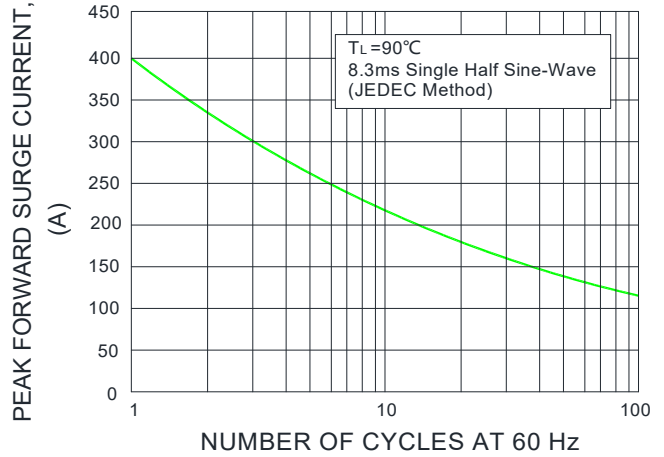


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

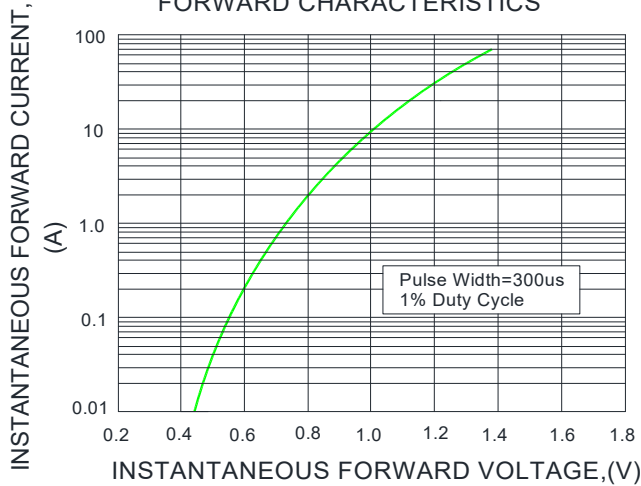


FIG.4-TYPICAL REVERSE CHARACTERISTICS

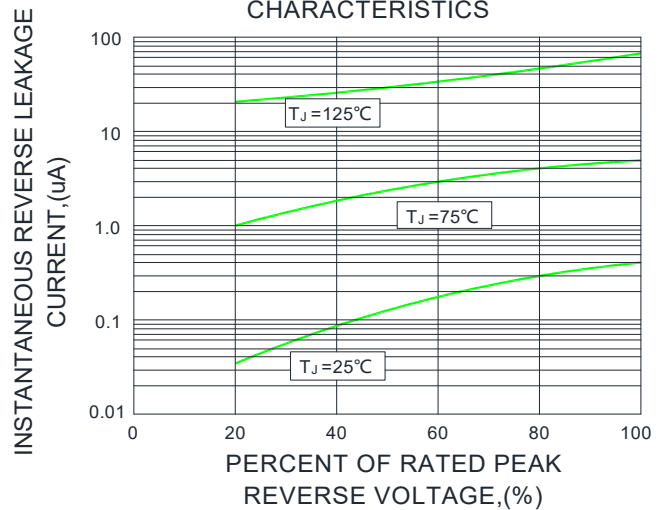
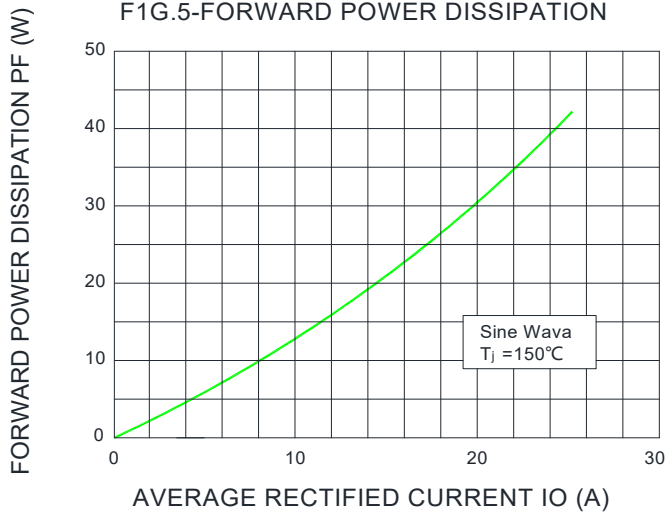


FIG.5-FORWARD POWER DISSIPATION





S25VB10 THRU S25VB100

VOLTAGE RANGE	100to 1000 Volts
CURRENT	25 Ampere

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