

S25VB10 THRU S25VB100

VOLTAGE RANGE CURRENT 100to 1000 Volts

25 Ampere

Features

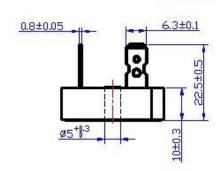
- Rating to 1000V PRV
- · High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- The plastic material has UL flammability classification 94V-0
- Electrically isolated base-2500 Vlots

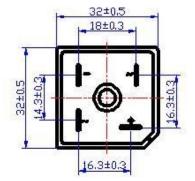
Mechanical Data

- 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		SYMBO LS	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)		l²t	800						A ² s
Maximum Instantaneous Forward Voltage drop Per Bridge element 12.5A		VF	1.1						Volts
Maximum Reverse Current at rated DC blocking voltage per element	TA=25℃		5.0						μAmps
	TA=125℃	I _R	500						
Mounting Torque (Recommended torque:0.5 N.m)		T _{OR}	2.0						N.m
Typical Thermal Resistance (NOTE 2)		Rejc	0.9						°C/W
Dielectric Strength (NOTE 3)		V_{DIS}	2.5						kVolts
Operating Temperature Range		TJ	150						$^{\circ}$
Storage Temperature Range		T _{STG}	-40 to +150						$^{\circ}$

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, liso:1mA(max)

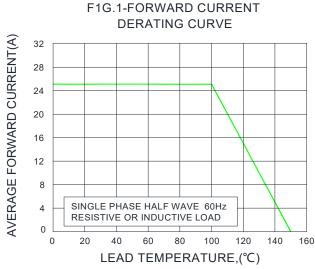


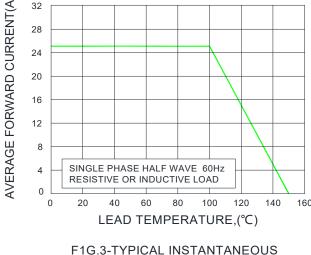
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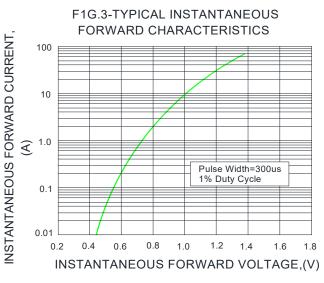
VOLTAGE RANGE CURRENT

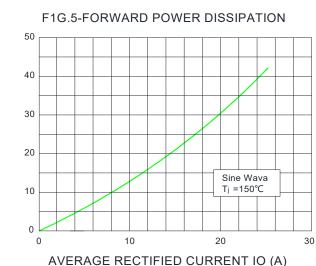
100to 1000 Volts 25 Ampere

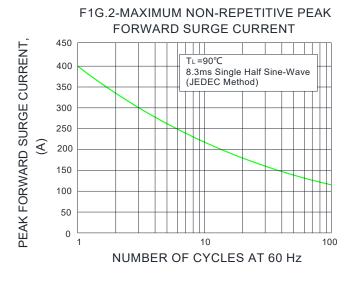
Ratings and Characteristic Curves (TA=25°C unless otherwise noted)

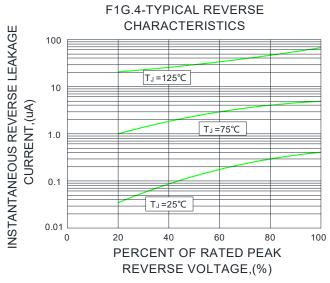












FORWARD POWER DISSIPATION PF (W)



S25VB10 THRU S25VB100

VOLTAGE RANGE

100to 1000 Volts

CURRENT 25 Ampere

Disclaimer

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