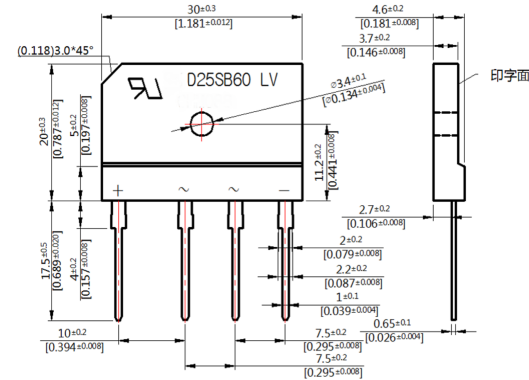


Features

- Glass Passivated Die Construction
- High surge current capability to 350 Amperes
- Low Reverse Leakage Current
- Low VF value
- ROHS compliance
- High temperature soldering guaranteed: 260°C+5°C/10 High temperature soldering guaranteed: 260°C+5°C/10
- Plastic Material - UL Flammability Classification 94V-0



Mechanical Data

- Case: Molded Plastic
- Polarity: Molded on Body
- Mounting Position : Fixing the bridge rectifier with M3 screw to the heat sink. Coat silicon thermal compound between backside of the bridge, which will be contacted with the heat sink for maximizing heat transfer.
- Weight: 6.8 grams (approx)
- Household Electric Appliances
- Industrial power supply
- Industrial automation equipment

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics @TA = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	D25SB60	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	VRRM	600	V
DC Blocking Voltage	VRWM VR		
RMS Reverse Voltage	VR (RMS)	420	V
Average Forward Rectified Output Current (Note 1)	Io	25	A
	@Tc= 100°C		
Non-Repetitive Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	350	A
Forward Voltage (per element)	VFM	0.88 (typ) , 0.92(max)	V
	@ IF = 12.5A		
Peak Reverse Current	IR	5.0	uA
at Rated DC Blocking Voltage	@ Tc = 25°C	500	
	@ Tc = 125°C		
I²t Rating for Fusing (t < 8.3ms) (Note 1)	I²t	508	A²s
Typical Junction Capacitance (per element) (Note 2)	Cj	85	PF
Typical Thermal Resistance	Junction to Case	RθJ-C	1.0
	Junction to ambient	RθJ-A	22
Operating and Storage Temperature Range	Tj, TSTG	-55 to+150	°C
Dielectric Strength	Terminal to case, AC 1 minute , IR < 1mA	Vdis	2.5
Mounting Torque	Max torque	8	Kgf.cm ⁽³⁾
	The proposed installation torque	5	

- Notes:
1. Non-repetitive, for t > 1 ms and < 8.3 ms.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



Fig.1 Derating Curve

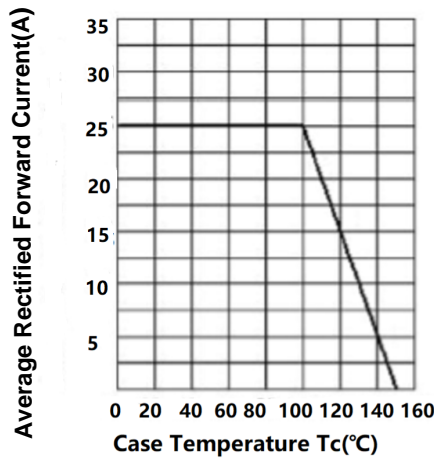


Fig.2 Peak Surge Forward Current

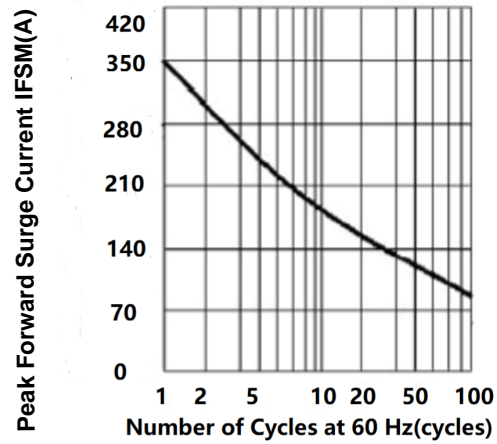


Fig.3 Typical Reverse Characteristics

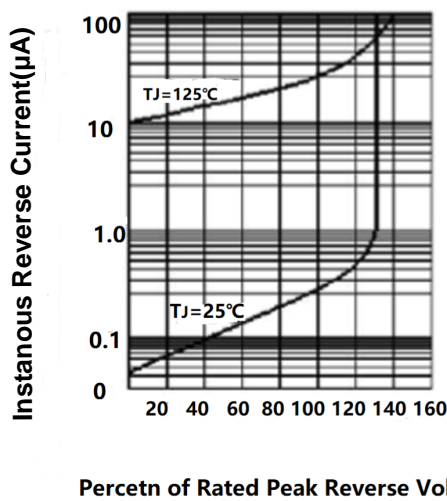


Fig.4 Forward Voltage

