

VOLTAGE RANGE: 100 - 1000V

CURRENT: 10 A

Features

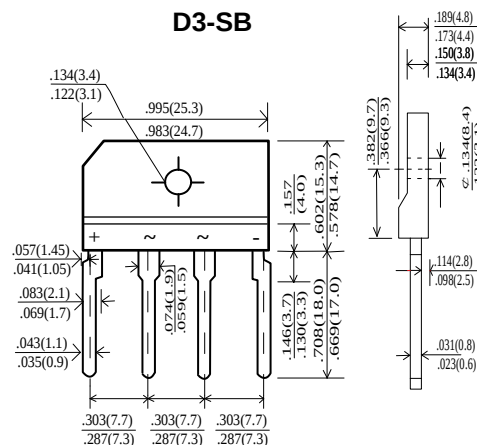
- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- Single-in-line package
- High current capacity with small package
Superior thermal conductivity
- High temperature soldering guaranteed:
260°C /10 seconds
- High IFSM

Mechanical Data

- Case: D3-SB, Molded Plastic



D3-SB



Unit: inch (mm)

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Parameter Symbol	Symbol	D4SB10	D4SB20	D4SB40	D4SB60	D4SB80	D4SB100	Unit
Maximum repetitive voltage	V_{RM}	100	200	400	600	800	1000	V
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	I_R	10						A
Average rectified forward current 60Hz Sine wave Resistance load with heat sink $T_c=100^\circ\text{C}$	I_O	6						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	120						A
Dielectric strength Terminals to case AC 1 minute Current 1mA	V_{dia}	2.5						KV
Maximum instantaneous forward voltage at 3A	V_F	1.1						V
	T_J	150						$^\circ\text{C}$
Storage temperature	T_{stg}	-40~150						$^\circ\text{C}$

Fig. 1 derating Curve

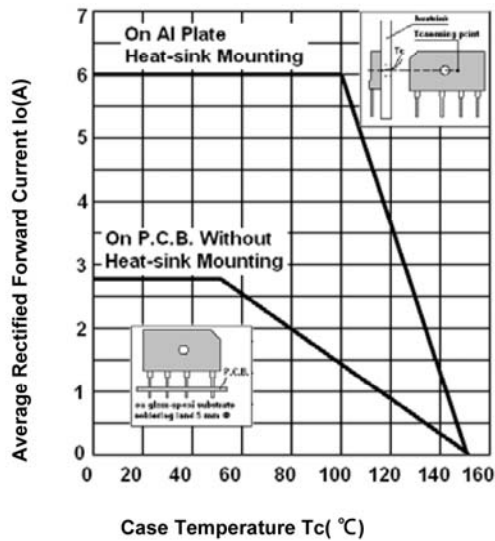


Fig.2 Typical Reverse Characteristics

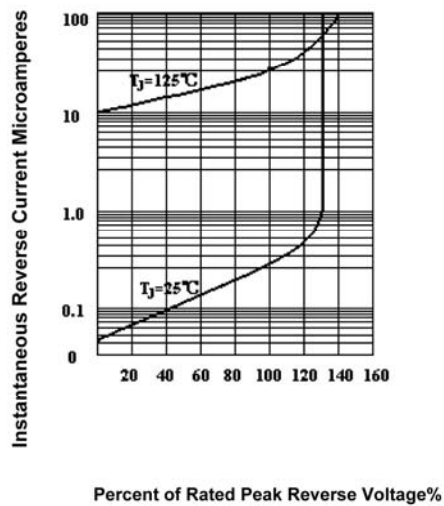


Fig.3 Peak Surge Forward capability

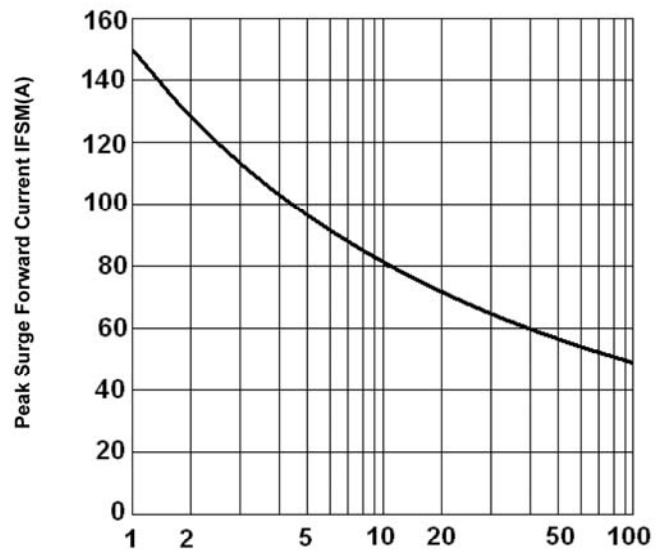


Fig.4 Forward Voltage

