

D10SB10 Thru D10SB100

High Current Glass Passivated Molding Single-Phase Bridge Rectifier

Reverse Voltage 100 to 1000V Forward Current 10 A

FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM



1. Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol		Symbol	D10SB10	D10SB20	D10SB40	D10SB60	D10SB80	D10SB100	Unit
Maximum repetitive voltage		VRRM	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	100	200	400	600	800	1000	V
Maximum DC reverse current TA=25 °C		IR	5						μA
at rated DC blocking voltage TA=125°C			500						
Maximum average forward rectified output current at	With heatsink Tc=100°C (1)	Io	10						A
	Without heatsink Ta=25°C (2)		3.5						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		IFSM	200						A
Rating of fusing (t<8.3ms)		I ² t	166						A ² sec
Dielectric strength terminals to case, AC 1 minute Current 1mA		Vdia	2.5						KV
Max instantaneous forward voltage at 5.0A		VF	1.05						V
Operating junction temperature		TJ	-55~150						°C
Maximum thermal on P.C.B. without heat-sink		RθJA	22						°C/W
resistance per leg on Al plate heat-sink		RθJC	2.0						
Storage temperature		Tstg	-55~150						°C
Mounting torque		Tor	Rating Torque : 0.8						N.m

Notes:

(1) Unit case mounted on aluminum plate heatsink

(2) Units mounted on P.C.B. without heatsink

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2. Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Derating Curve

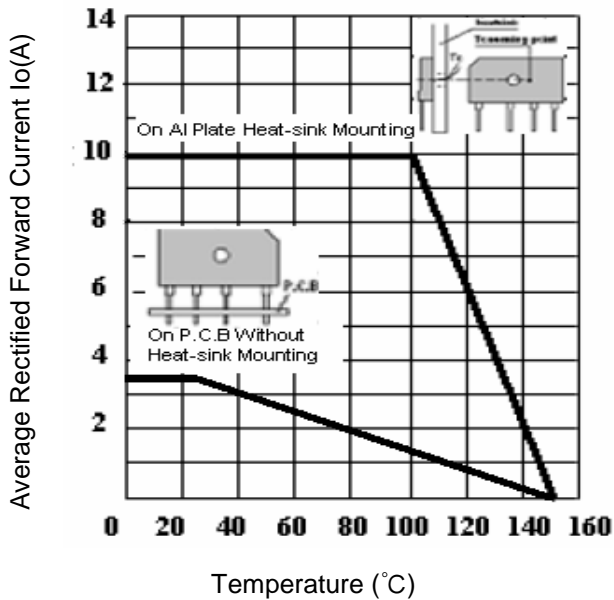


Fig.2 Typical Reverse Characteristics

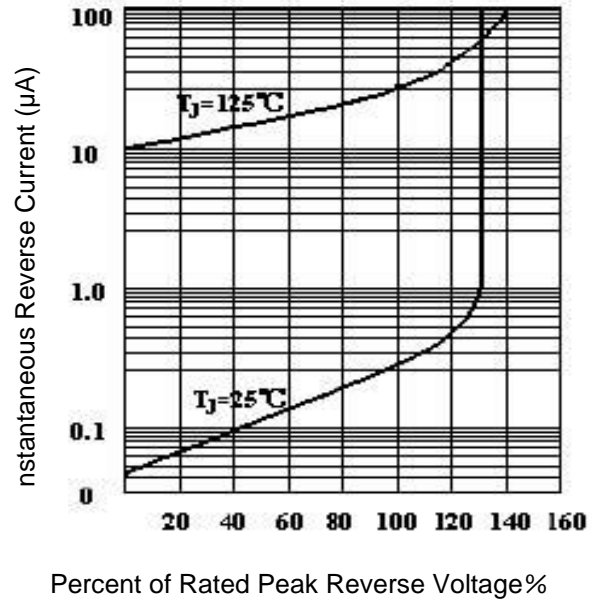


Fig.3 Forward Voltage

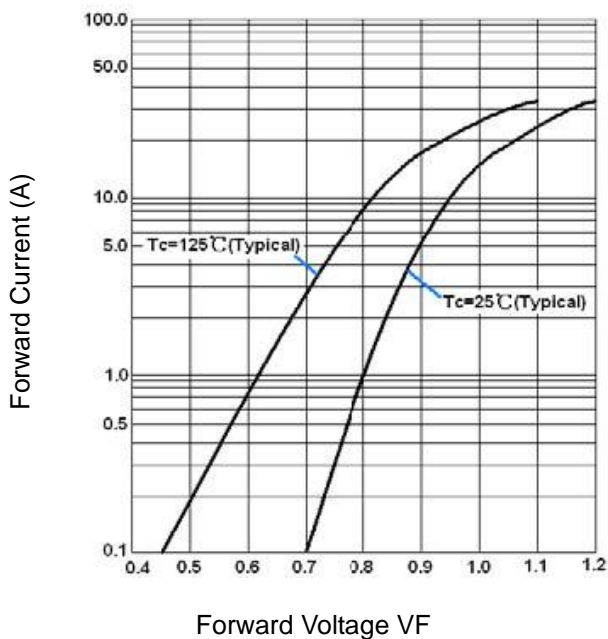


Fig.4 Peak Surge Forward Capability

