

D5SB10 Thru D5SB100

High Current Glass Passivated Molding Single-Phase Bridge Rectifier

Reverse Voltage 100 to 1000V Forward Current 6.0 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	D5SB10	D5SB20	D5SB40	D5SB60	D5SB80	D5SB100	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 ℃		IR	5						μA
at rated DC blocking voltage TA=125℃			500						
Maximum average forward rectified output current at	With heatsink Tc=100℃ ⁽¹⁾	Io	6.0						A
	Without heatsink Ta=25℃ ⁽²⁾		2.8						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		IFSM	175						A
Rating of fusing (t<8.3ms)		I ² t	127						A ² sec
Dielectric strength terminals to case, AC 1 minute Current 1mA		Vdia	2.5						KV
Max instantaneous forward voltage at 3.0A		VF	1.05						V
Operating junction temperature		TJ	-55~150						℃
Maximum thermal on P.C.B. without heat-sink		RθJA	22						℃/W
resistance per leg on Al plate heat-sink		RθJC	2.8						
Storage temperature		Tstg	-55~150						℃
Mounting torque		Tor	Rating Torque : 0.8 (Suggests 0.45~0.65)						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

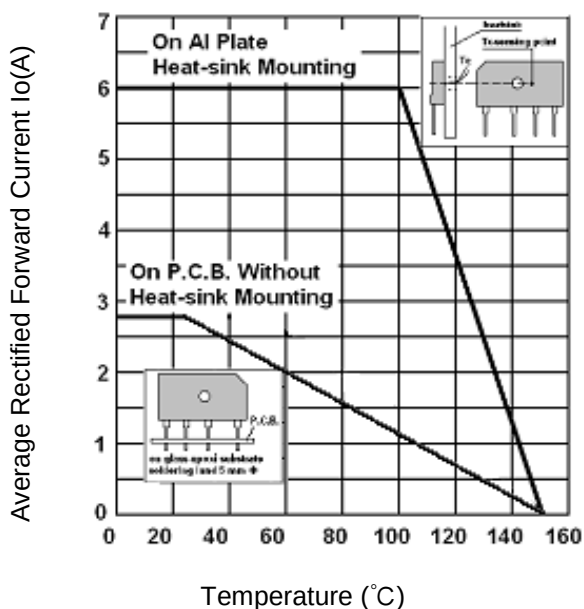


Fig.2 Typical Reverse Characteristics

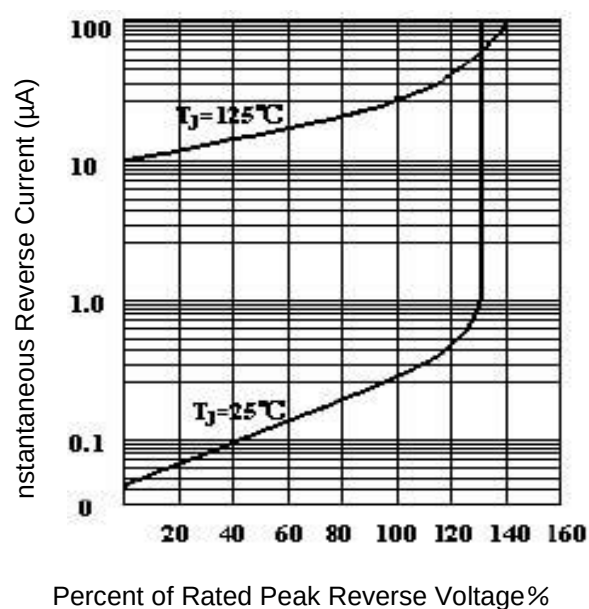


Fig.3 Forward Voltage

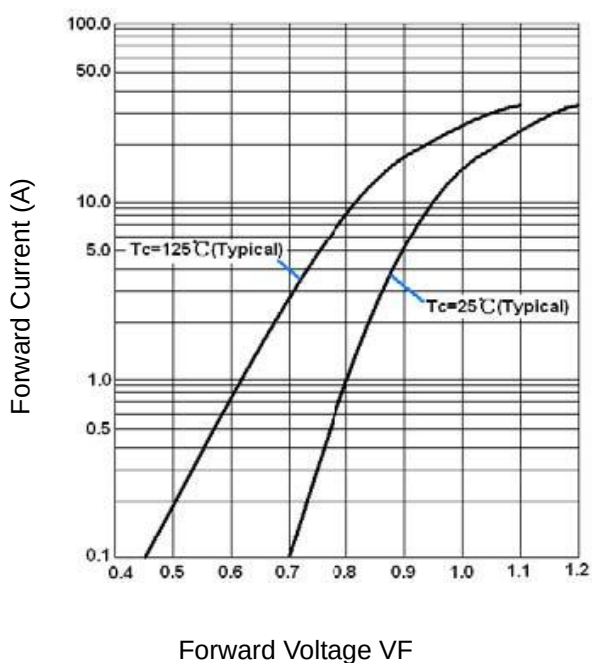
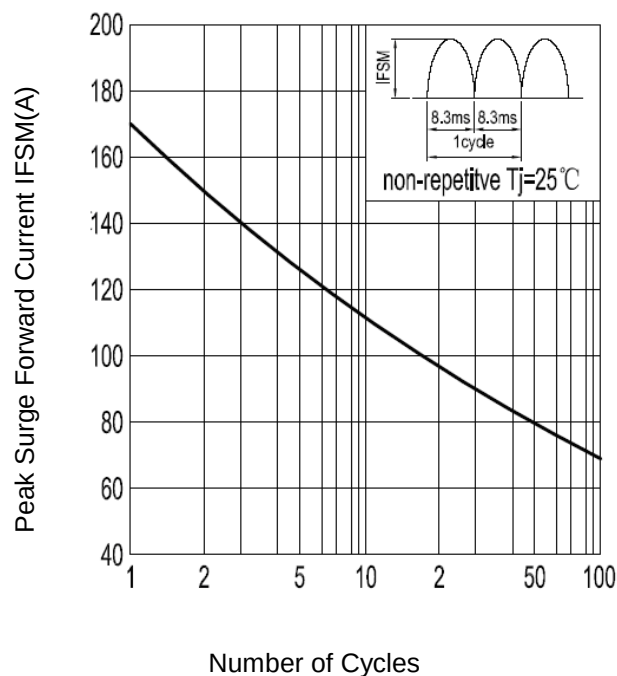
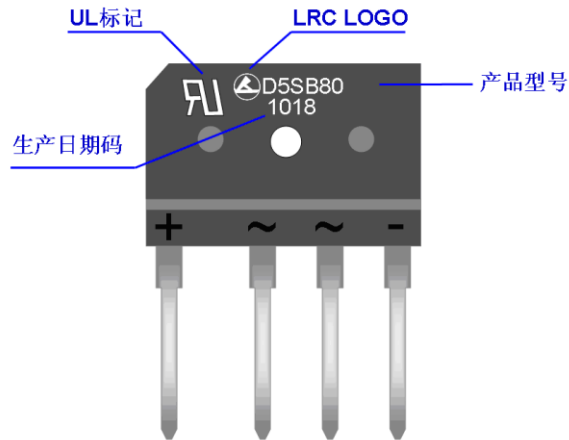


Fig.4 Peak Surge Forward Capability



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3. Marking Identification



Note:

生产日期码包含4位数字，例如“1010”，前两个数字“10”表示为2010年，另外二个数字“18”是指第18周，即表示该产品为2010年18周生产。

型号: **D 5 SB 80**

- D**: mean: D series bridge
- 5**: average rectified forward Current=6A
- SB**: mean: single -in-line bridge
- 80**: bridge reverse voltage=800V

4. Dimension

