

# D50SB10 Thru D50SB100

**High Current Glass Passivated Molding Single-Phase Bridge Rectifier**

**Reverse Voltage 100 to 1000V Forward Current 50A**

## 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	D50SB10	D50SB20	D50SB40	D50SB60	D50SB80	D50SB100	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 <sup>(1)</sup>	Io	50						A
	Without heatsink Ta=25°C <sup>(2)</sup>		15						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		IFSM	450						A
Rating of fusing (t<8.3ms)		I <sup>2</sup> t	840						A2sec
Dielectric strength terminals to case, AC 1 minute Current 1mA		Vdia	2.5						KV
Max instantaneous forward voltage at 17.5A		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	1.3						
Storage temperature		Tstg	-55~150						°C
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 (TA = 25°C unless otherwise noted)

Fig. 1 Derating Curve

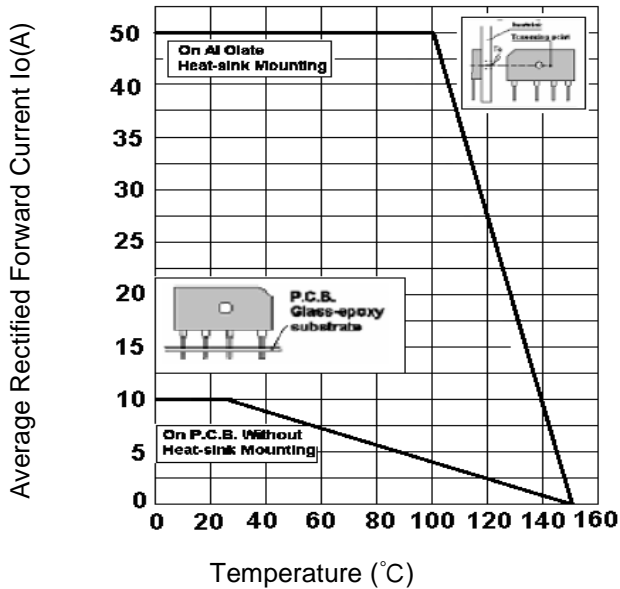


Fig.2 Typical Reverse Characteristics

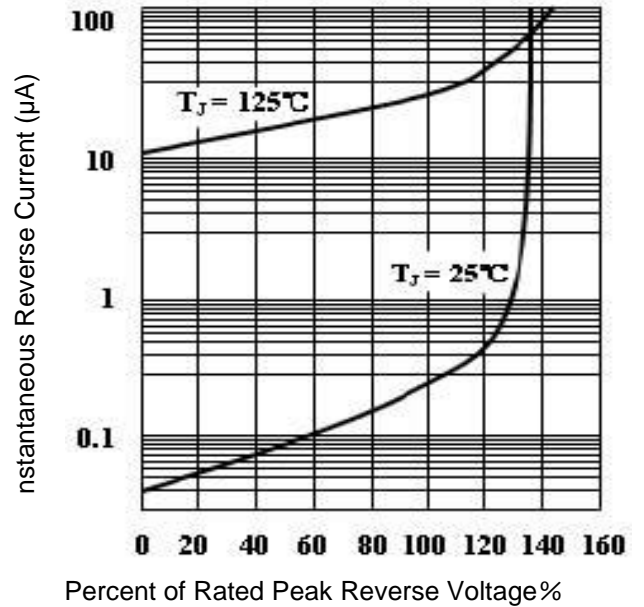


Fig.3 Forward Voltage

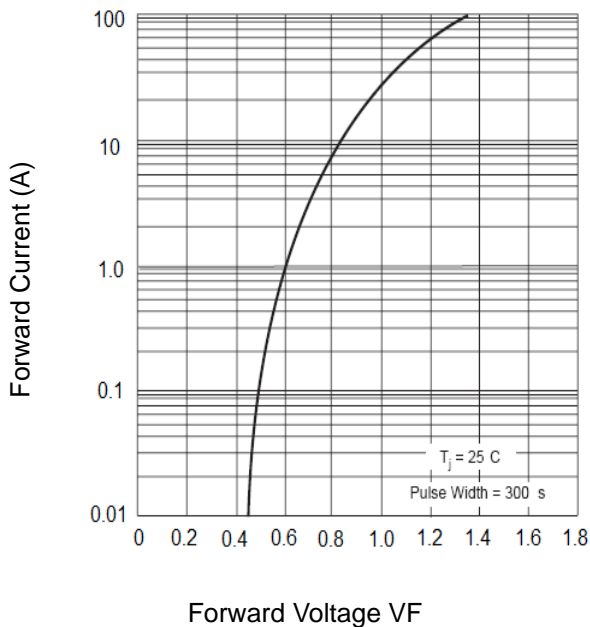
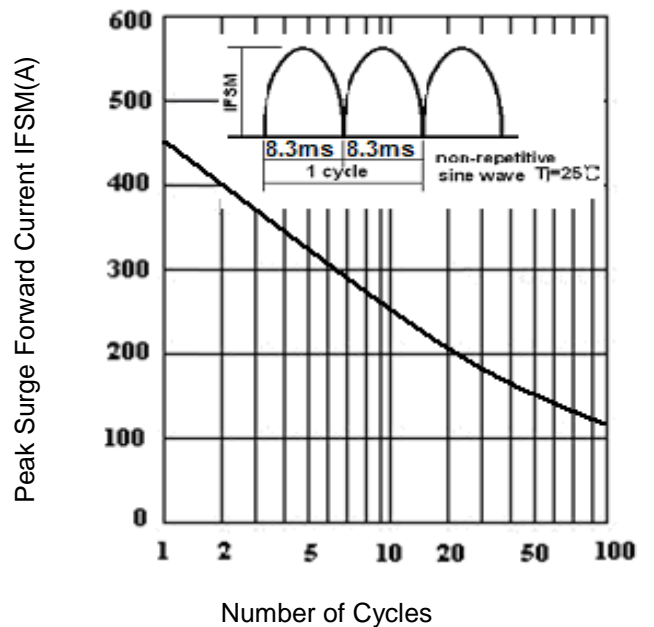
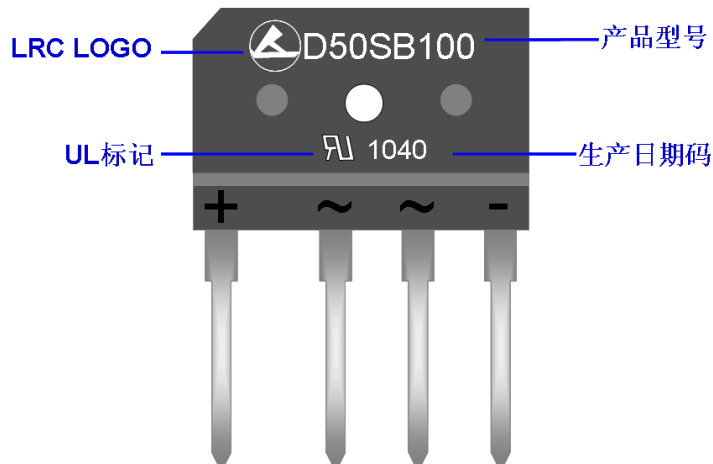


Fig.4 Peak Surge Forward Capability



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## Marking Identification

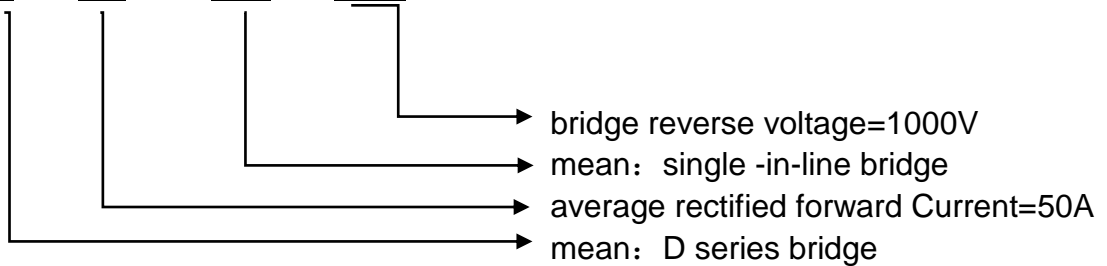


### Note:

生产日期码包含4位数字，例如“1040”，前两个数字“10”表示为2010年，另外二个数字“40”是指第40周，即表示该产品为2010年40周生产。

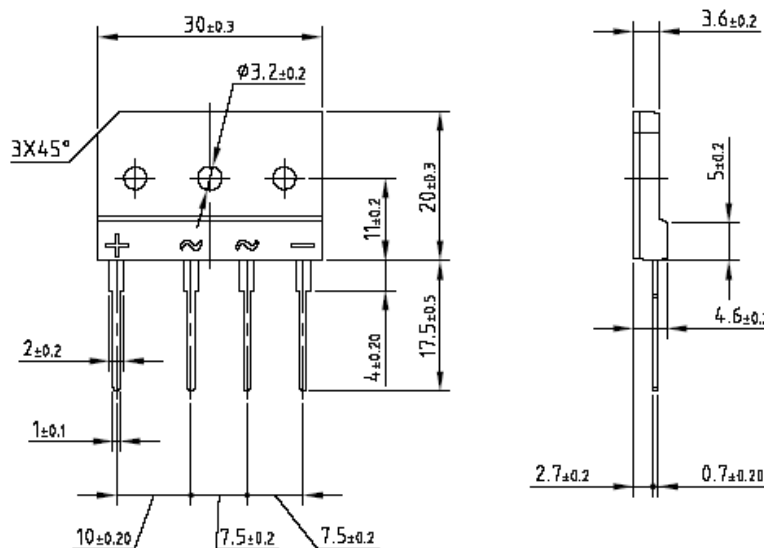
型号:

**D**    **50**    **SB**    **100**



## 3. Dimension

Package Type D5/KBJ



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)