GBU25B Thru GBU25M

High Current Glass Passivated Molding Single-Phase Bridge Rectifier

Reverse Voltage 100 to 1000V Forward Current 25A

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℃ ambient temperature unless otherwise specified.

Parameter Symbol	Symbol	GBU25B	GBU25D	GBU25G	GBU25J	GBU25K	GBU25M	Unit
Maximum repetitive voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum DC reverse current TA=25 °C	IR	5						μA
at rated DC blocking voltage TA=125℃		500						
Maximum average forward rectified output current at Tc=100℃	Io	25						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	350						A
Rating of fusing (t<8.3ms)	I^2t	300						A^2sec
Dielectric strength terminals to case， AC 1 minute Current 1mA	Vdia	2.5						KV
Max instantaneous forward voltage at 12.5A	VF	1.05						V
Maximum thermal on P.C.B. without heat-sink	$R_{\theta JA}$	MAX22						°C/W
resistance per leg on Al plate heat-sink	$R_{\theta JC}$	MAX2.0						
Operating junction temperature	TJ	-55~150						℃
Storage temperature	Tstg	-55~150						℃
Mounting torque	Tor	Rating Torque : 0.8（Suggests 0.45~0.65）						N.m

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2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 Derating Curve

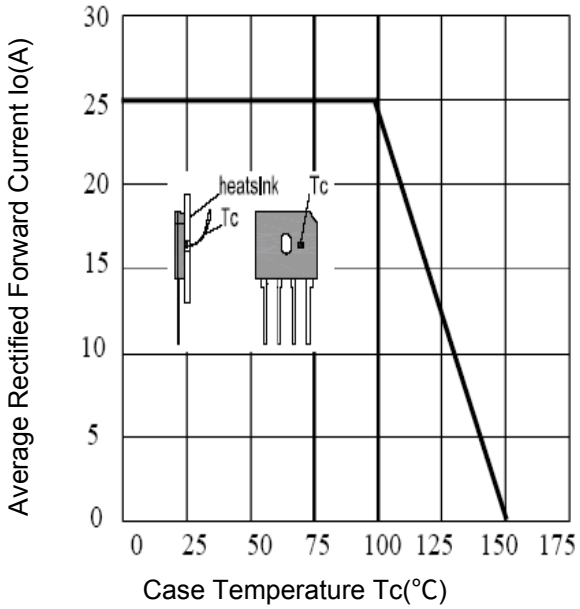


Fig.2 Typical Reverse Characteristics

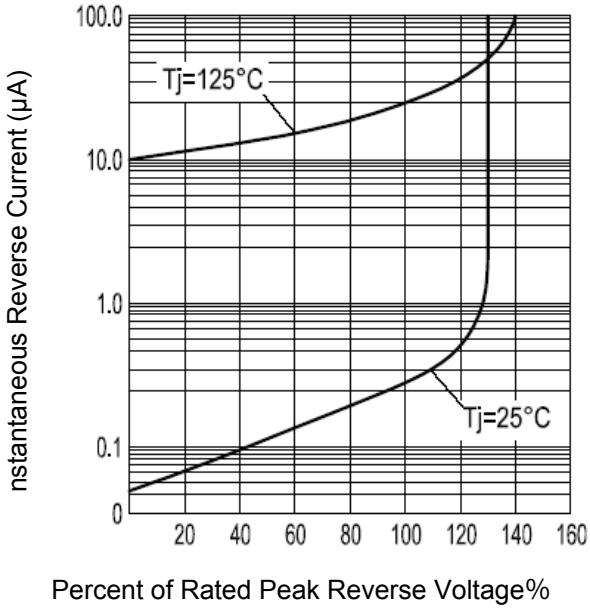


Fig.3 Forward Voltage

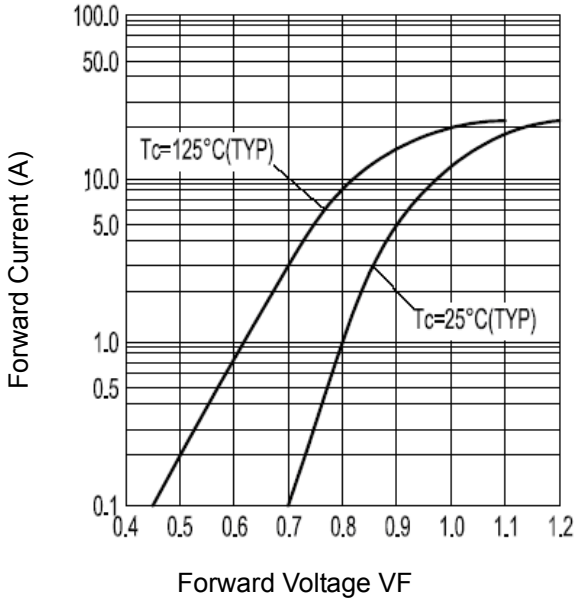
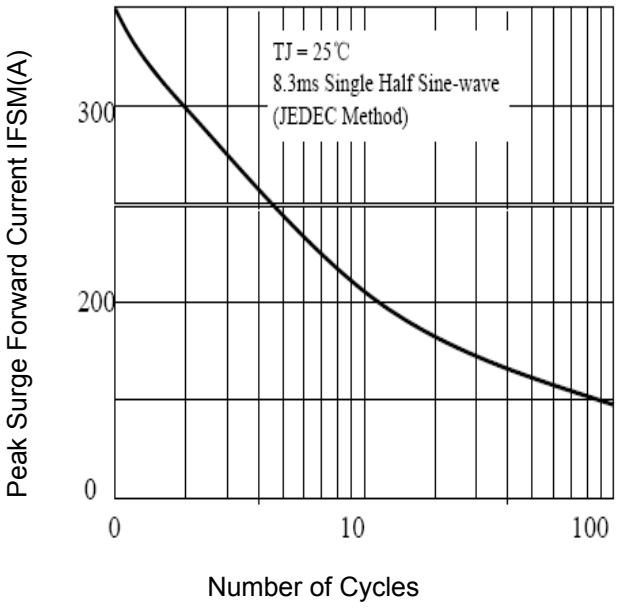
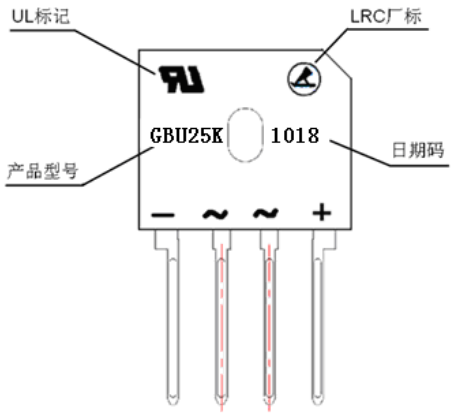


Fig.4 Peak Surge Forward Capability



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3. Marking Identification



Note：

生产日期码包含4位数字，例如 “1018”，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： **GBU** **25** **K**

- K → bridge reverse voltage=800V
- 25 → average rectified forward Current=25A
- GBU → mean：GBU series bridge

4. Dimension

