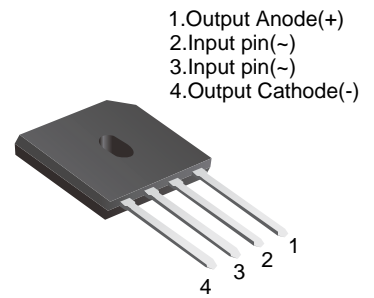


15A Glass Passivated Single-Phase Bridge Rectifier

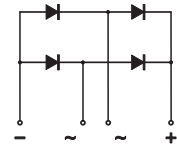
Features

- Glass passivated chip
- Low Reverse Leakage Current
- High surge current capability
- Case to Terminal Isolation Voltage 2500V
- Lead free in comply with EU RoHS 2011/65/EU directives



Mechanical Data

- Case: GBU
- Approx. Weight: 3.85g
- Polarity: As marked on body



Ordering Information

Part Number	Shipping	Packing Type
LTG15005U THRU LTG1510U	500PCS/Box	Box

Maximum Ratings and Thermal Characteristics @ Ta = 25°C unless otherwise noted

Characteristic	Symbol	LTG15005U	LTG1501U	LTG1502U	LTG1504U	LTG1506U	LTG1508U	LTG1510U	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Forward Output Rectified Current@Ta =120°C	$I_{F(AV)}$	15							A
Forward Voltage Per Leg @IFM =15.0A	V_F	1.1							V
Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load	I_{FSM}	300							A
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25°C Ta=125°C	I_R	5 500							uA
Rms isolation voltage from case to leads	V_{isol}	2500							V
Typical Junction Capacitance	C_J	98							pF
Maximum thermal resistance per leg	$R_{\theta JC}$	1.5							/W
Operating Junction and storage temperature range	T_J, T_{STG}	-55 to +150							

Note:

- (1) Junction to case with heatsink
- (2) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.



Characteristics Curves

Fig.1 Forward Current Derating Curve

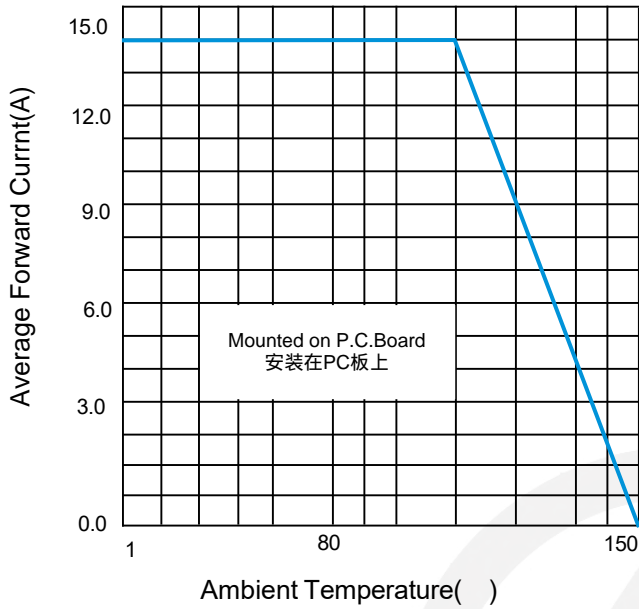


Fig.2 Maximum Non-Repetitive Surge Current

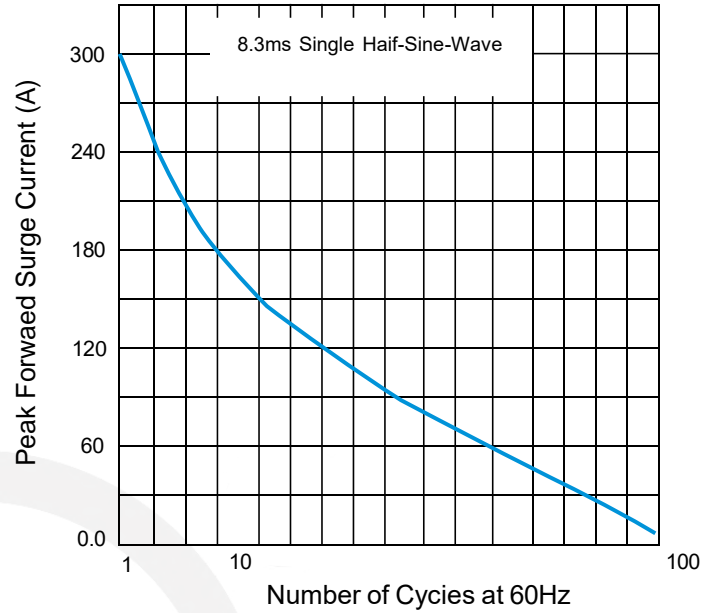


Fig.3 Typical Reverse Characteristics

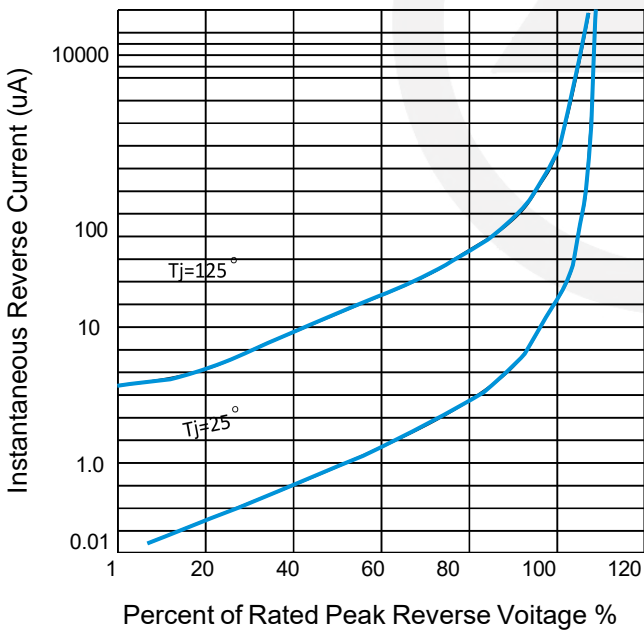
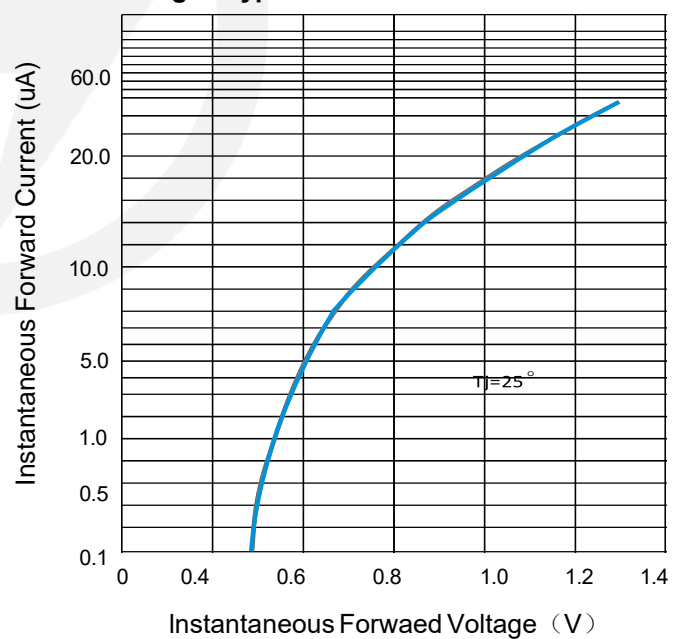
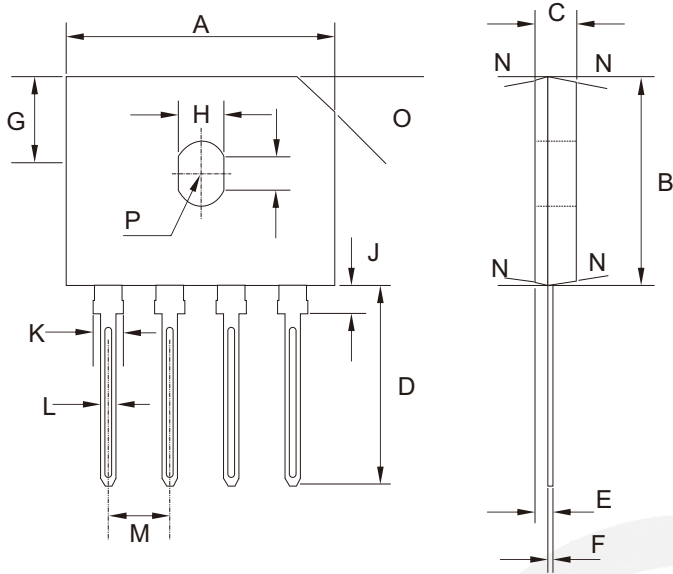


Fig.4 Typical Forward Characteristics



GBU Package Outline



Symbol	Dimensions In Millimeters	
	Min	Max
A	21.80	22.30
B	18.30	18.80
C	3.30	3.56
D	17.50	18.00
E	0.76	1.00
F	0.46	0.56
G	7.40	7.90
H	3.50	4.10
I	1.65	2.16
J	1.85	2.75
K	1.95	2.35
L	1.02	1.27
M	4.83	5.33
N	7°TYP.	
O	3.2x45°	
P	1.90	

Marking

Type number	Marking code
LTG15005U	GBU15005
LTG1501U	GBU1501
LTG1502U	GBU1502
LTG1504U	GBU1504
LTG1506U	GBU1506
LTG1508U	GBU1508
LTG1510U	GBU1510

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Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision Content	Revision Reason	Revision Person	Note
01	2025.12.10	2025.12.10	3.0	New file	/	Ding	