Glass Passivated Bridge Rectifier

Voltage	1000 V	Current	35A

Features

- Glass passivated chip junction
- Superior thermal conductivity
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

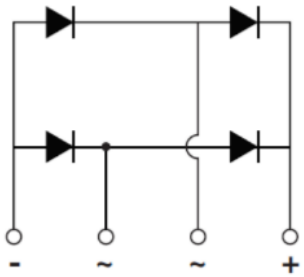
- Case : GBU-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 3.8348 grams

Application

- Computing Power / Desktop Power
- Game Console Power
- Server Power
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board

GBU-2





Key Parameters	
Parameter	**Value**
V_{RRM}	1000V
$I_F(AV)$	35A
I_{FSM}	400A
I_R	5uA
T_J max.	175°C
Package	GBU-2

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	V
Maximum RMS Voltage		V_{RMS}	700	V
Maximum DC Blocking Voltage		V_{DC}	1000	V
Maximum Average Forward Current	With heatsink	$I_{F(AV)}$	35	A
	Without heatsink		4.5	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T_A = 25 °C	I_{FSM}	400	A
	@ T_A = 125 °C		320	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T_A = 25 °C	I_{FSM}	800	A
	@ T_A = 125 °C		640	
I^2t rating for fusing (t = 8.3ms)		I^2t	664	A^2S
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V		C_J	130	pF
Typical Thermal Resistance (Note 1) (with heatsink)		$R_{\theta JA}$	6	°C/W
		$R_{\theta JL}$	2	
		$R_{\theta JC}$	1.5	
Operating junction and storage temperature range		T_J, T_{STG}	-55~175	°C
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 17.5 A, T_J = 25 °C	-	-	1.1	V
Reverse Current	I_R	V_R = 1000 V, T_J = 25 °C	-	-	5	uA
		V_R = 1000 V, T_J = 125 °C	-	-	100	

NOTES :

1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink

TYPICAL CHARACTERISTIC CURVES

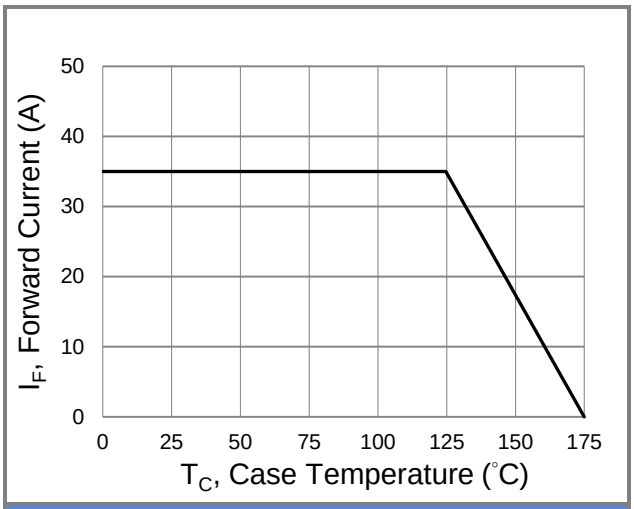


Fig.1 Forward Current Derating Curve

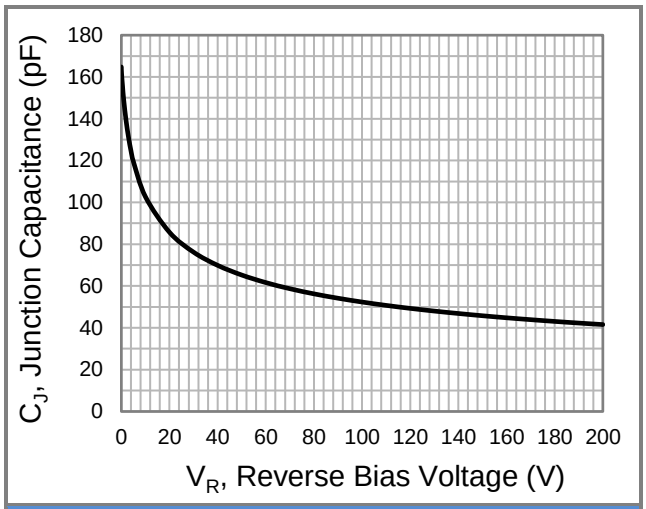


Fig.2 Typical Junction Capacitance

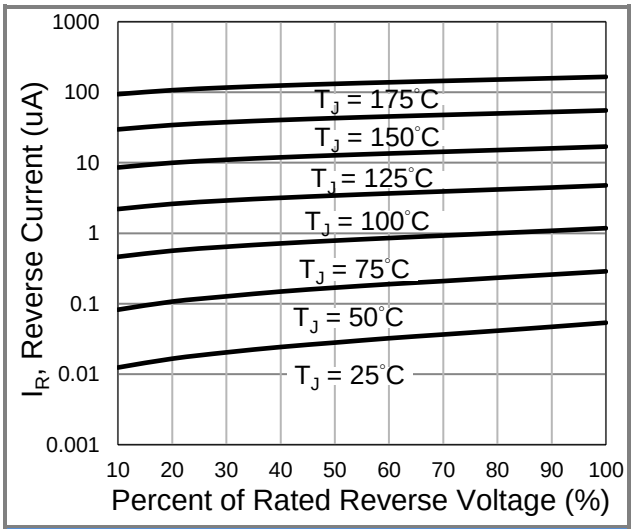


Fig.3 Typical Reverse Characteristics

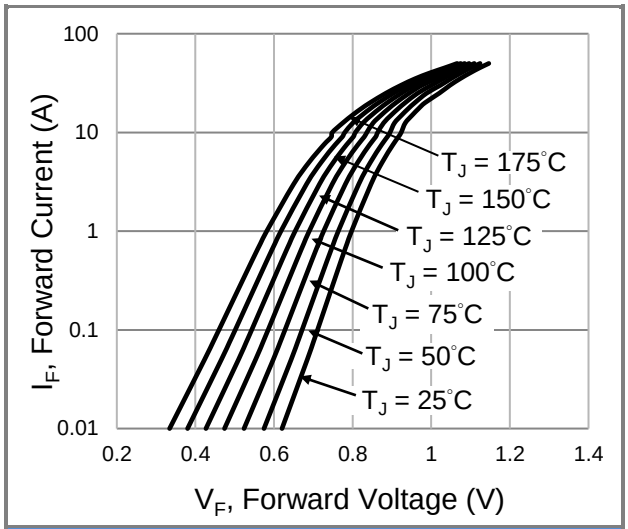


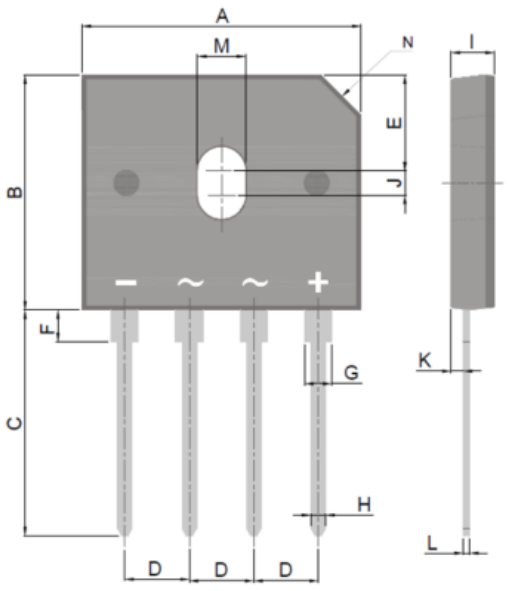
Fig.4 Typical Forward Characteristics

Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBU3510H	GBU-2	20 pcs / tube	GBU3510H

Packaging Information

GBU-2 Dimension — Unit: inch(mm)



GBU-2 Dimension.Unit:Inch(mm)				
Dim	Unit (Inch)		Unit (mm)	
	Min	Max	Min	Max
A	0.854	0.878	21.70	22.30
B	0.720	0.740	18.30	18.80
C	0.689	0.709	17.50	18.00
D	0.190	0.210	4.83	5.33
E	0.291	0.311	7.40	7.90
F	0.089	0.108	2.25	2.75
G	0.077	0.093	1.95	2.35
H	0.040	0.050	1.02	1.27
I	0.130	0.138	3.30	3.50
J	0.065	0.085	1.65	2.15
K	0.030	0.039	0.76	1.00
L	0.018	0.022	0.45	0.55
M	0.138	0.161	3.50	4.10
N	0.125*45°		3.17*45°	

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