

Glass Passivated Bridge Rectifier

1000 V

Voltage

Features



Current

- 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

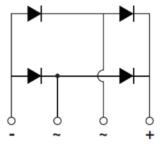
Application

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

Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I⊧(AV)	35A		
IFSM	400A		
I _R	5uA		
TJ 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		Vrrm	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC Blocking Voltage		VDC	1000	V
Maximum Average Forward Current	With heatsink		35	
	Without heatsink	IF(AV)	4.5	A
Peak Forward Surge Current : 8.3 ms	@ T _A = 25 °C		400	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	320	A
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		800	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	640	A
I^2 t rating for fusing (t = 8.3ms)		l²t	664	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	130	pF
	R _{0JA}	6		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	2	°C/W
		R _{θJC}	1.5	
Operating junction and storage temperature range		TJ, TSTG	-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	VF	I⊧ = 17.5 A, TJ = 25 °C	-	-	1.1	V
		$V_R = 1000 V, T_J = 25 ^{\circ}C$	-	-	5	
Reverse Current	IR	V _R = 1000 V,T _J = 125 °C	-	-	100	uA

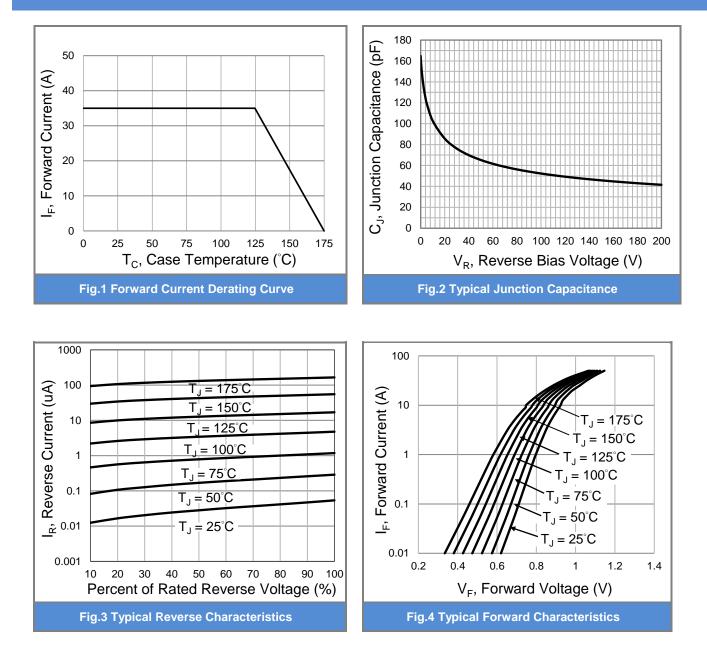
NOTES :

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





TYPICAL CHARACTERISTIC CURVES





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)		
A	GBU-2 Dimension.Unit:Inch(mm)				
M I	Ur	Unit (Inch)		Unit (mm)	
	Dim	Min	Max	Min	Max
u -	Α	0.854	0.878	21.70	22.30
	в	0.720	0.740	18.30	18.80
	с	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
↑ u <u>†</u>	G	0.077	0.093	1.95	2.35
G K	н	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
	к	0.030	0.039	0.76	1.00
H	L	0.018	0.022	0.45	0.55
	м	0.138	0.161	3.50	4.10
	N	0.12	5*45°	3.17	*45°



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