Glass Passivated Bridge Rectifier

Voltage

PAN

1000 V

SEMI CONDUCTOR



HF

Current

Features

- Glass passivated chip junction
- UL recognition file number E526209
- 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 : 0.1353 ounces, 3.8348 grams

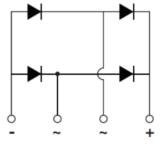
Application

- 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 Parame	ters
Parameter	Value
V _{RRM}	1000V
I _F (AV)	25A
I _{FSM}	350A
IR	5uA
Package	GBU-2

<u>GBU-2</u>









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		25		
	Without heatsink	lf(AV)	3.5	A	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		350	_	
	@ T _A = 125 °C	IFSM	280	A	
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		700	A	
	@ T _A = 125 °C	IFSM	560		
I^2 t rating for fusing (t = 8.3ms)		I²t	508.3	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_B = 4 V$		CJ	110	pF	
Typical Thermal Resistance (Note 1) (with heatsink)		Reja	8	°C/W	
		R _{θJL}	3		
		R _{eJC}	3		
Operating junction and storage temperature range		TJ, TSTG	-55~150	٥C	
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⊧ = 12.5 A, TJ = 25 °C	-	-	1.05	V	
	-	$V_R = 1000 V, T_J = 25 \circ C$	-	-	5		
Reverse Current	IR	V _R = 1000 V,T _J = 125 °C	-	-	100	uA	

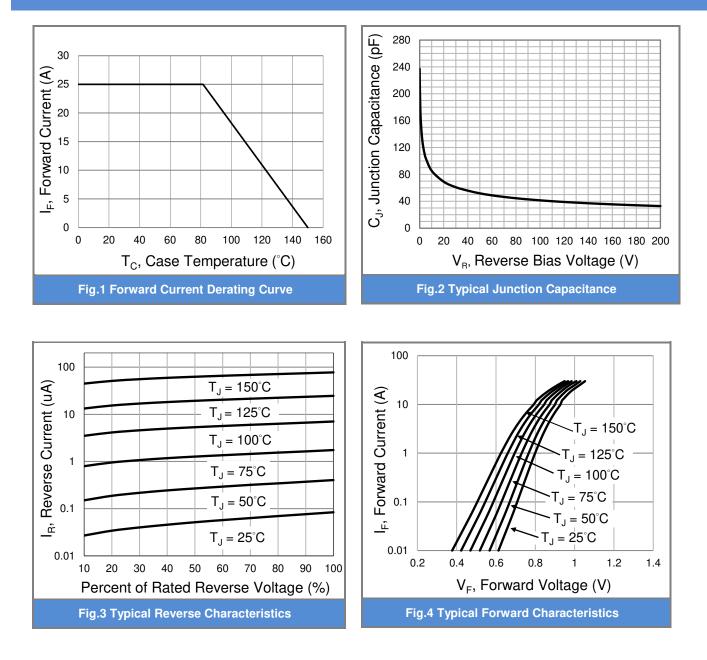
NOTES :

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



GBU2510

TYPICAL CHARACTERISTIC CURVES





Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBU2510	GBU-2	20 pcs / tube	GBU2510

Packaging Information

GBU-2 Dimen	GBU-2 Dimension		Unit: inch(mm)			
Α		GBU-2 Dimension.Unit:Inch(mm)				
M	Dim	Unit	Unit (Inch)		Unit (mm)	
	Dim	Min	Max	Min	Max	
u la	A	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.]	G	0.077	0.093	1.95	2.35	
G	H	0.040	0.050	1.02	1.27	
	1	0.130	0.138	3.30	3.50	
	J	0.065	0.085	1.65	2.15	
	ĸ	0.030	0.039	0.76	1.00	
	L	0.018	0.022	0.45	0.55	
· · · · · · · · · · · · · · · · · · ·	<u>ь М</u>	0.138	0.161	3.50	4.10	
D D D	N	0.12	5*45°	3.17	*45°	



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