Glass Passivated Bridge Rectifier

1000 V

Voltage

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

Key Parameters

Current

6A

HF

Value

1000V

6A

175A

5uA

GBU-2

• Approx. Weight : 0.1353 ounces, 3.8348 grams

Application

- Computing Power / Desktop Power
- Game Console Power
- Server Power
- Air Conditioner out door power board

Parameter

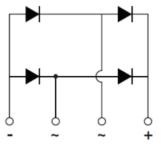
VRRM

- High Power/High Efficiency Power
- Home Appliances Power Board

I⊧(AV)	
I _{FSM}	
I _R	
Package	











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		6		
	Without heatsink	IF(AV)	2.6	A	
Peak Forward Surge Current : 8.3 ms	@ T _A = 25 °C		175	_	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	25 °C 175 A 125 °C IFSM 140 A 25 °C IFSM 290 A 125 °C IFSM 230 A			
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		290	_	
Single Half Square -Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	230	A	
I ² t rating for fusing (t = 8.3ms)		I²t	127	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_{R} = 4 V$		Сл	55	pF	
Typical Thermal Resistance (Note 1) (with heatsink)		Reja	8		
		Rejl	3	°C/W	
	Rejc	4			
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 _F = 3 A, T _J = 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

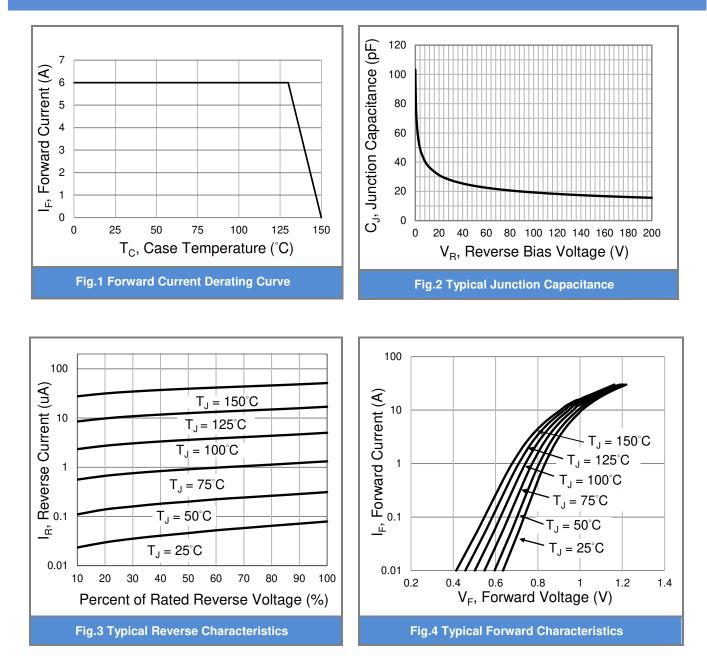
NOTES :

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



GBU610

TYPICAL CHARACTERISTIC CURVES





Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBU610	GBU-2	20 pcs / tube	GBU610

Packaging Information

GBU-2 Dimension				Unit: inch(m	im)
A	GBU-2 Dimension.Unit:Inch(mm)				
M	Dim	Unit (Inch)	(Inch)	Unit	(mm)
	Dim	Min	Max	Min	Max
u 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	G	0.077	0.093	1.95	2.35
G K	н	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
	к	0.030	0.039	0.76	1.00
	L	0.018	0.022	0.45	0.55
	М	0.138	0.161	3.50	4.10
D D D	N	0.12	5*45°	3.17	*45°



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