

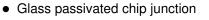
Voltage

Features

PAN

SEMI CONDUCTOR

1000 V



- 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

Current

10A

HF

• Approx. Weight : 0.1353 ounces, 3.8348 grams

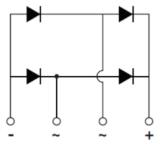
Application

- 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)	10A
I _{FSM}	240A
I _R	5uA
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		V _{DC}	1000	V
Maximum Average Forward Current	With heatsink		10	
	Without heatsink	IF(AV)	2.7	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load $@ T_A = 25$ Peak Forward Surge Current : 1.0 ms Single Half Square -Wave $@ T_A = 25$	@ T _A = 25 °C		240	_
	@ T _A = 125 °C	IFSM	192	A
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		400	
	@ T _A = 125 °C	IFSM	380	A
I^2 t rating for fusing (t = 8.3ms)		I²t	239	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_B = 4 V$		CJ	70	pF
Typical Thermal Resistance (Note 1) (with heatsink)		RθJA	8	
		Rejl	3	°C/W
		R _{θJC}	4	
Operating junction and storage temperature range		TJ, TSTG	-55~150	۰C
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 = 5 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

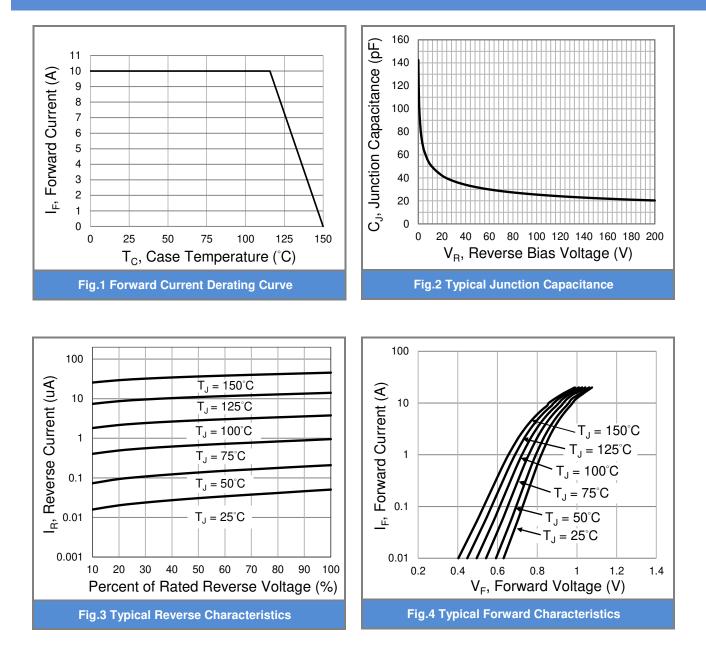
NOTES :

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



GBU1010

TYPICAL CHARACTERISTIC CURVES





Part No. Marking Code Version

Approved Part No.	Package Type	ackage Type Packing Type	
GBU1010	GBU-2	20 pcs / tube	GBU1010

Packaging Information

GBU-2 Dimension				Jnit: inch(m	ım)		
Α		GBU-2 Dimension.Unit:Inch(mm)					
M	Dim	Unit (Unit (Inch)		Unit (mm)	
	Dim	Min	Max	Min	Max		
ш —	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 <u>i</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		
H	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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