

Current

25A

HF

Voltage

Features

- Glass passivated chip junction
- Low forward voltage drop
- Lead free in compliance with EU RoHS 2.0

800 V

• Halogen-free according to IEC 61249 standard

Mechanical Data

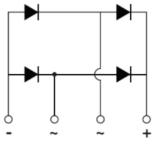
- Case : GBU-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 3.8348 grams

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 Parame	ters
Parameter	Value
V _{RRM}	800V
I _F (AV)	25A
I _{FSM}	400A
V _F @125°C,(typ)	0.82V
I _R	5uA
Package	GBU-2







GBU2508LV



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

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Volt	age	Vrrm	800	V
Maximum RMS Voltage		V _{RMS}	560	V
Maximum DC Blocking Voltage	VDC	800	V	
Maximum Average Forward Current	With heatsink	_	25	_
	Without heatsink	IF(AV)	3	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)	l ² t	664	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	165	pF	
	RθJA	6		
Typical Thermal Resistance (Note 1)	Rejl	3	°C/W	
		R _{θJC}	2	
Operating junction and storage tempera	TJ, TSTG	-55~150	°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	
		I⊧ = 12.5 A, TJ = 25 °C	-	-	0.98		
Forward Voltage	Vf	I⊧ = 12.5 A, T」 = 125 °C	-	0.82	-	V	
		V _R = 800 V, T _J = 25 °C	-	-	5	•	
Reverse Current	IR	V _R = 800 V,T _J = 125 °C	-	-	100	uA	

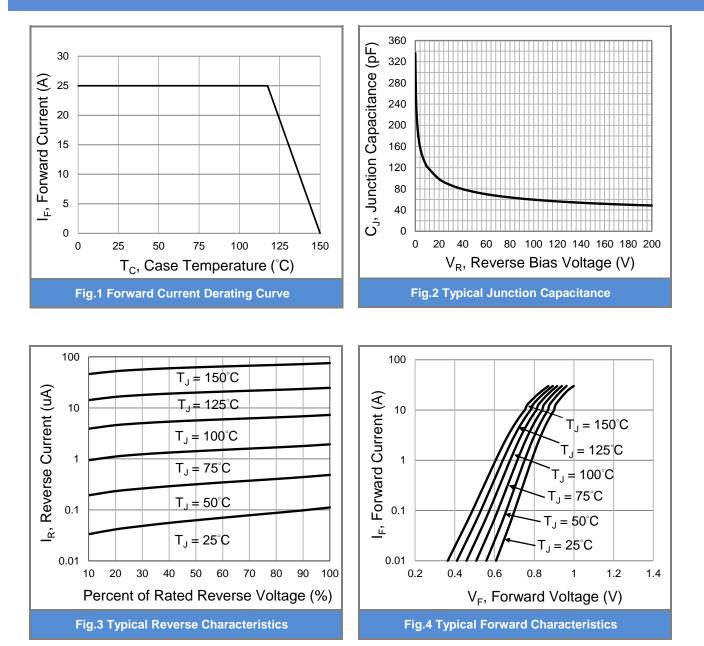
NOTES :

1. Device mounted on 100 mm * 94 mm * 26 mm Fin type heat sink .





TYPICAL CHARACTERISTIC CURVES





Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBU2508LV	GBU-2	20 pcs / tube	GBU2508LV

Packaging Information

GBU-2 Dimension									Unit: inch(r	nm)
	•	A		-1	N I	G	BU-2 Dim	ension.Ur	nit:Inch (m	ım)
-					Dim	Unit (Inch)		Unit (mm)		
				X		Dim	Min	Max	Min	Max
						Α	0.854	0.878	21.70	22.30
-		(- 0		1	B	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
1		1				F	0.089	0.108	2.25	2.75
-	-9.1	8.1	1.1	B		G	0.077	0.093	1.95	2.35
		1 1	14	G	K	н	0.040	0.050	1.02	1.27
		1 1				1	0.130	0.138	3.30	3.50
0		1 1				J	0.065	0.085	1.65	2.15
		1				K	0.030	0.039	0.76	1.00
				н		L	0.018	0.022	0.45	0.55
L	- 1	Ŧ 1			ь	M	0.138	0.161	3.50	4.10
D D			D	l,		N	0.125*45° TYP.		3.17*45	° TYP.



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