

GBJ3508HULV

800V With High Tj Ultra Low VF Bridge Rectifier

Current

Voltage

800 V

Features

- Oxide planar chip junction
- Low forward voltage drop (VF@0.72V)
- Low leakage current (IR@20uA)
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

- Case : GBJ-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 6.6972 grams

Application

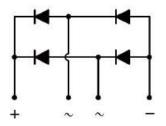
- Power: Server / AI / IND
- PC Power: 80+Platinum Titanium
- Power: Redundant / Telecom
- Gaming Power: NB / PC
- PD > 100W

Key Parameters			
Parameter	Value		
V _{RRM}	800V		
I _F (AV)	35A		
I _{FSM}	400A		
V _F @175℃	0.72V		
I _R	1uA		
TJ max.	175°C		
Package	GBJ-2		











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

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		Vrrm	800	V
Maximum RMS Voltage		V _{RMS}	560	V
Maximum DC Blocking Voltage		V _{DC}	800	V
Maximum Average Forward Current	With heatsink		35	
	Without heatsink	IF(AV)	6	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		400	
	@ T _A = 125 °C	IFSM	320	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		800	
	@ T _A = 125 °C	IFSM	640	A
I^2 t rating for fusing (t = 8.3ms)		I²t	664	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	250	pF
	Reja	6		
Typical Thermal Resistance (Note 1) (with heatsink)		Rej∟	3	°C/W
		R _{θJC}	1	
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	-	0.88	0.92	N
		I⊧ = 17.5 A, T」 = 125 °C	-	0.75	-	V
Reverse Current	IR	V _R = 800 V, T _J = 25 °C	-	0.2	1	
		V _R = 800 V,T _J = 125 °C	-	20	-	uA

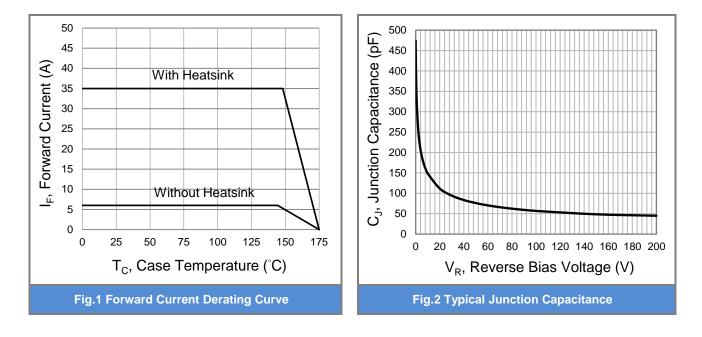
NOTES :

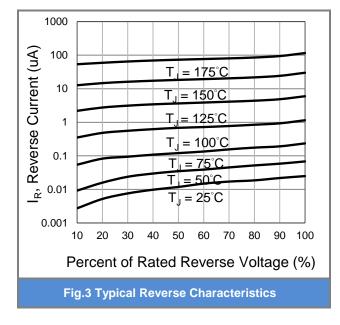
1. Device mounted on 100 mm * 94 mm * 26 mm Fin type heat sink.

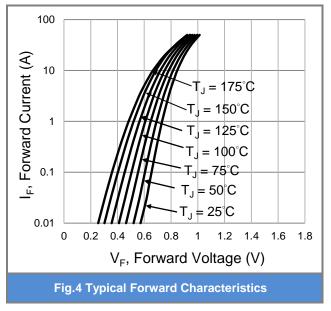




TYPICAL CHARACTERISTIC CURVES









Product and Packing Information

Part No.	o. Package Type Packing Type		Marking		
GBJ3508HULV	GBJ-2	15 pcs / tube	GBJ3508HULV		

Packaging Information

GBJ-2 Dimension			Unit: inch(mm)			
	G	BJ-2 Dime				
	Dim	Unit (Inch)		Unit (mm)		
	Dan	Min	Max	Min	Max	
R	A	1.169	1.193	29.70	30.30	
	В	0.776	0.799	19.70	20.30	
	С	0.669	0.709	17.00	18.00	
<u>α</u>	D	0.386	0.402	9.80	10.20	
• • • · · · · · · · · · · · · · · · · ·	E	0.287	0.303	7.30	7.70	
	F	0.154	0.169	3.90	4.30	
• • •	G	0.079	0.094	2.00	2.40	
	н	0.035	0.043	0.90	1.10	
	1	0.173	0.189	4.40	4.80	
G K	J	0.091	0.106	2.30	2.70	
	K	0.102	0.114	2.60	2.90	
'U	L	0.022	0.031	0.55	0.80	
	M	0.181	0.189	4.60	4.80	
H	N	Ø0.122	Ø0.134	Ø3.10	Ø3.40	
	P	0.346	0.362	8.80	9.20	
			.00			
	R	0.138	0.150	3.50	3.80	



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