

GBJ2508HULV

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

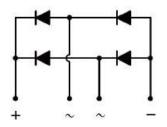
- Power: Server / AI / IND
- PC Power: 80+Platinum Titanium
- Power: Redundant / Telecom
- Gaming Power: NB / PC
- PD > 100W

Key Parameters			
Parameter	Value		
V _{RRM}	800V		
I _F (AV)	25A		
I _{FSM}	350A		
V _F @175℃	0.72V		
I _R	1uA		
TJ max.	175°C		
Package	GBJ-2		

25A









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		25	
	Without heatsink	IF(AV)	5.8	A
Peak Forward Surge Current : 8.3 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 Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		600	
	@ T _A = 125 °C	IFSM	500	A
I^2 t rating for fusing (t = 8.3ms)	I²t	508	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	170	pF	
	Reja	6		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	3	°C/W
		R _{θJC}	1	
Operating junction and storage temperature range		TJ, TSTG	-55~175	°C
Mounting torque @ Recommend torque	Tor	8	Kg.cm	

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
	M	I⊧ = 12.5 A, TJ = 25 °C	-	0.88	0.92	N
Forward Voltage	Vf	I⊧ = 12.5 A, T」 = 125 °C	-	0.75	-	V
		$V_R = 800 V, T_J = 25 \circ C$	-	0.2	1	•
Reverse Current	IR	V _R = 800 V,T _J = 125 °C	-	20	-	uA

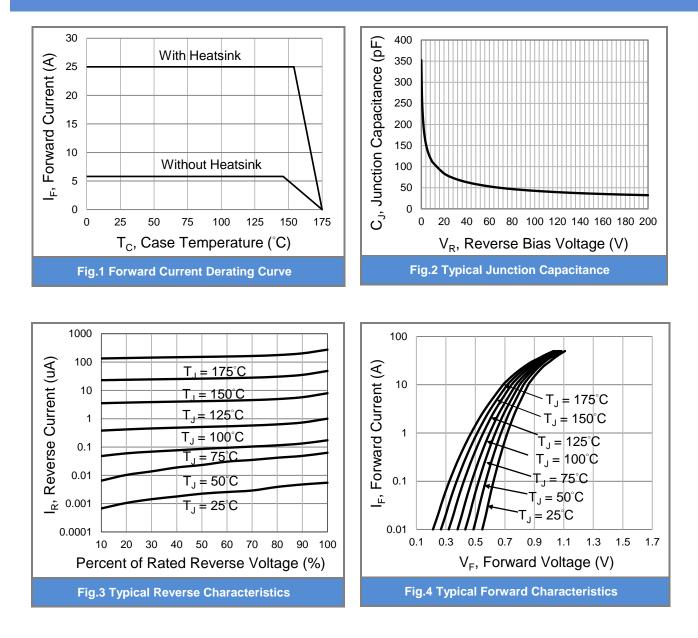
NOTES :

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





TYPICAL CHARACTERISTIC CURVES

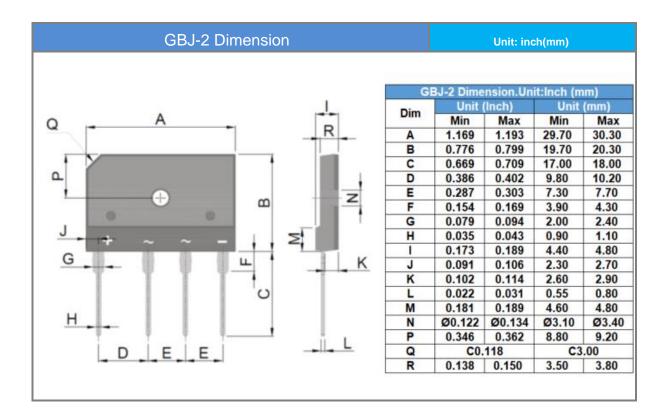




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBJ2508HULV	GBJ-2	15 pcs / tube	GBJ2508HULV

Packaging Information





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