

## Ultra Low VF Bridge Rectifier with Super Low Leakage Current



### **Features**

- Oxide planar chip junction
- Low forward voltage drop (VF@0.76V)
- 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

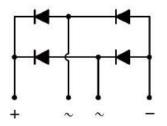
- Computing Power
- Server Power/IND/EV
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board
- TV Power

Key Parameters			
Parameter	Value		
V <sub>RRM</sub>	600V		
I⊧(AV)	25A		
I <sub>FSM</sub>	350A		
V <sub>F</sub> @125°C	0.76V		
I <sub>R</sub>	1uA		
Package	GBJ-2		





**GBJ-2** 





## Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		Vrrm	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	V	
Maximum DC Blocking Voltage		VDC	600	V
Maximum Average Forward Current	With heatsink		25	
	Without heatsink	IF(AV)	2.5	A
Peak Forward Surge Current : 8.3 ms	@ T <sub>A</sub> = 25 °C		350	
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	280	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C		600	
	@ T <sub>A</sub> = 125 °C	IFSM	500	A
$I^2$ t rating for fusing (t = 8.3ms)	l <sup>2</sup> t	508	A <sup>2</sup> S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	V	CJ	185	pF
	Reja	6		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	3	°C/W
		R <sub>ejc</sub>	2	
Operating junction and storage tempera	TJ, TSTG	-55~150	°C	
Mounting torque @ Recommend torque	Tor	8	Kg.cm	

## Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I⊧ = 12.5 A, TJ = 25 °C	-	0.88	0.92	N
		I⊧ = 12.5 A, T」 = 125 °C	-	0.76	-	V
		$V_R = 600 \text{ V},  T_J = 25 ^{\circ}\text{C}$	-	0.2	1	•
Reverse Current	IR	V <sub>R</sub> = 600 V,T <sub>J</sub> = 125 °C	-	20	-	uA

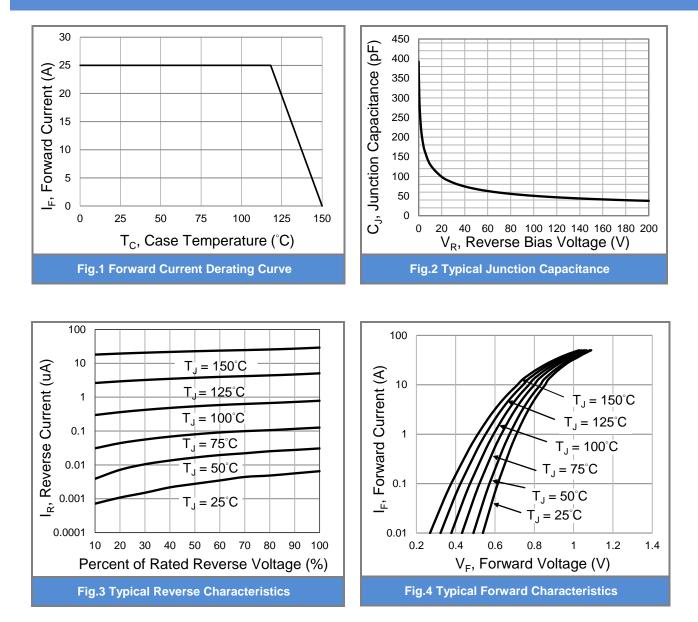
NOTES :

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

# GBJ2506ULV



### **TYPICAL CHARACTERISTIC CURVES**

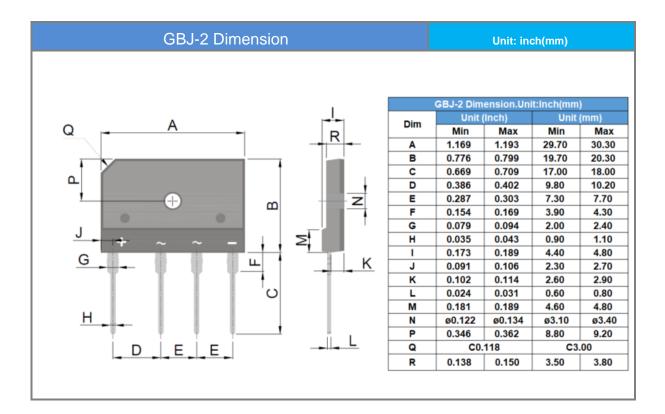




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
GBJ2506ULV	GBJ-2	15 pcs / tube	GBJ2506ULV

## **Packaging Information**





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