

25A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Features

- Recommended for non-automatic applications.
- Ideal for & save space on printed circuit board.
- Applicable for automatic insertion.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- · Glass passivated chip junctions.
- Suffix "G" indicates Halogen-free part, ex.GBJ2506LVG.
- · Lead-free parts meet RoHS requirments.
- UL recognized file # E321971

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, GBJ

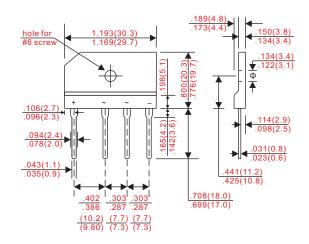
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: marked on bodyMounting Position: Any

• Weight: Approximated 7.00 gram

Outline

GBJ



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	GBJ2506LV		
1 didilictei	Cymbol	OBUZUULV	UNIT	
Marking code		GBJ2506L	0	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600		
Maximum RMS Voltage	V _{RMS}	420	V	
Maximum DC Blocking Voltage	V _{DC}	600		
Maximum Instantaneous Forward Voltage@7.5A, T _A =25°C	V _F	0.95	V	
Operating Temperature	T	-55 ~ +150	°C	

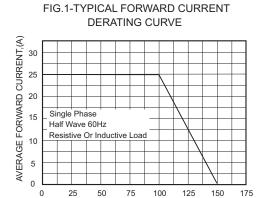
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	Note1	Io			25	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			350	Α
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ}C$				10	uA
	$V_R = V_{RRM} T_A = 125^{\circ}C$	I _R			500	
I ² t Rating for fusing	t < 8.3 ms	l ² t		510		A ² s
Typical junction capacitance per element	Note2	C		75		pF
Thermal resistance		R _{eJC}		0.6		°C/W
Operating temperature range		TJ	-55		+150	°C
Storage temperature		T _{STG}	-55		+150	°C

Notes: 1.Unit mounted on 300mm x 300mm x 1.6mm Cu plate heatsink. 2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

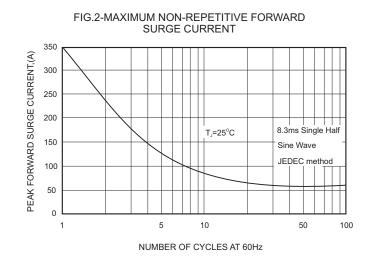


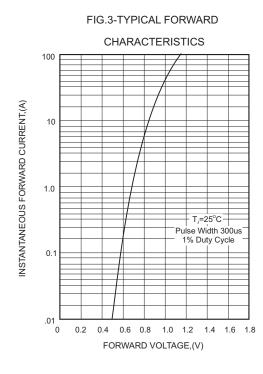
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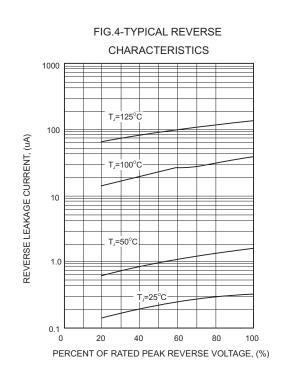
■ Rating and characteristic curves



CASE TEMPERATURE,(°C)







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http://www.citcorp.com.tw/

Tel:886-3-5600628

Fax:886-3-5600636

Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)