

**FL** E502650

#### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Current Capability
- · Low Forward Voltage Drop

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 1°C/W Junction to Case (Note2)
- Typical Thermal Resistance: 22°C/W Junction to Ambient

## **Mechanical Data**

• Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ25L06	GBJ25L06	600V	420V	600V

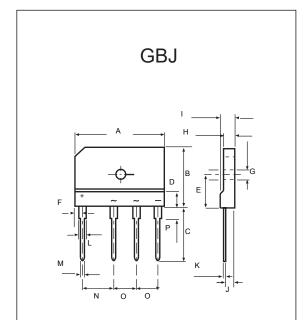
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	25A 3.5A	T <sub>C</sub> =115°C,With Heatsink T <sub>A</sub> =25°C,Without Heatsink
Peak Forward Surge Current	I <sub>FSM</sub>	320A 640A	8.3ms,Half Sine Wave 1.0ms,Square Wave
Current Squared Time	l²t	425A <sup>2</sup> s	1ms≤t <8 .3ms,T <sub>J</sub> =25°C, Rating of Per Diode
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.92V 0.87V(Typ.) 0.80V	I <sub>FM</sub> =12.5A; T <sub>J</sub> =25°C I <sub>FM</sub> =12.5A; T <sub>J</sub> =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 100μΑ	T <sub>J</sub> =25°C; T <sub>J</sub> =125°C;
Dielectric Strength	Vdis	2.5KV	Terminals to Case, AC 1 Minute
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz VR=4.0V
Maximum Reverse Recovery Time	t <sub>rr</sub>	500ns	IF=0.5A; IR=1.0A; Irr=0.25A

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

2. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

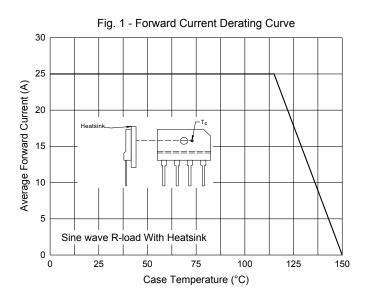
# 25 Amp Low VF Bridge Rectifier 600 Volts

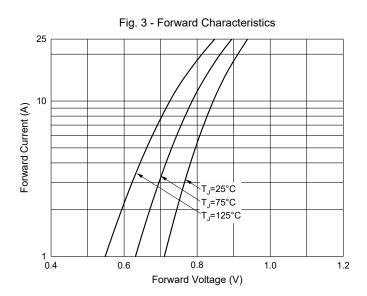


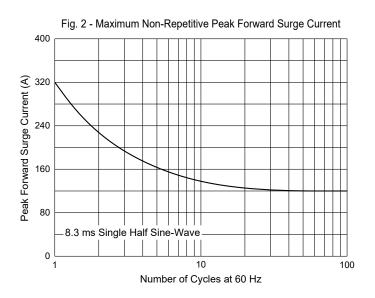
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	1.170	1.190	29.70	30.30		
В	0.780	0.800	19.70	20.30		
С	0.670	0.710	17.00	18.00		
D	0.190	0.190	4.70	4.90		
Е	0.430	0.440	10.80	11.20		
F	0.090	0.110	2.30	2.70		
G	0.120	0.130	3.10	3.40		
Н	0.130	0.150	3.40	3.80		
I	0.170	0.190	4.40	4.80		
J	0.100	0.110	2.50	2.90		
K	0.020	0.030	0.60	0.80		
L	0.080	0.090	2.00	2.40		
М	0.040	0.040	0.90	1.10		
N	0.390	0.400	9.80	10.20		
0	0.290	0.300	7.30	7.70		
Р	0.150	0.170	3.80	4.20		

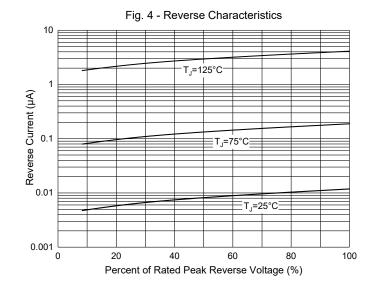


## **Curve Characteristics**











# **Ordering Information**

Device	Packing	
Part Number-BP	Bulk:15pcs/Tube,750pcs/Box,1500pcs/Carton	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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