

**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

# 25 Amp Low VF Bridge Rectifier 600 Volts

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 0.6°C/W Junction to Case (Note2)
- Typical Thermal Resistance: 25°C/W Junction to Ambient (Note2)

#### **Mechanical Data**

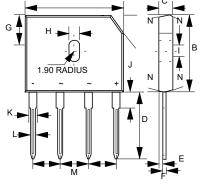
• Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
GBU25L06	GBU25L06	600V	420V	600V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	25A 4A	T <sub>C</sub> =110°C,With Heatsink T <sub>A</sub> =25°C,Without Heatsink	
Peak Forward Surge Current	I <sub>FSM</sub>	360A 720A	8.3ms,Half Sine Wave 1.0ms,Square Wave	
Current Squared Time	l²t	538A <sup>2</sup> s	1ms≤t <8 .3ms,Tյ=25°C, Rating of Per Diode	
Instantaneous Forward Voltage	V <sub>F</sub>	0.92V(Max.) 0.87V(Typ.)	I <sub>FM</sub> =12.5A; T <sub>J</sub> =25°C I <sub>FM</sub> =12.5A; T <sub>J</sub> =25°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 50μΑ	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	С	185pF	Measured at 1.0MHz VR=4.0V	

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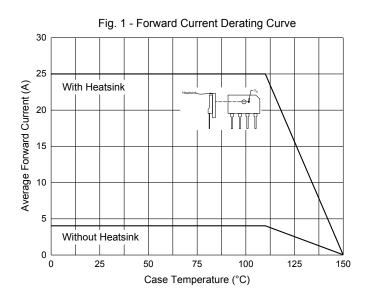
DIM	INCHES		MM		NOTE
Dilvi	MIN	MAX	MIN	MAX	NOTE
Α	0.860	0.880	21.80	22.30	
В	0.720	0.740	18.30	18.80	
С	0.130	0.142	3.30	3.60	
D	0.690	0.717	17.50	18.20	
Е	0.030	0.039	0.76	1.00	
F	0.018	0.024	0.46	0.60	
G	0.290	0.310	7.40	7.90	
Н	0.140	0.160	3.50	4.10	
I	0.065	0.085	1.65	2.16	
J	0.060	0.096	1.52	2.45	
K	0.077	0.098	1.95	2.50	
L	0.040	0.050	1.02	1.27	
М	0.190	0.210	4.83	5.33	
N	7.0°				TYP.

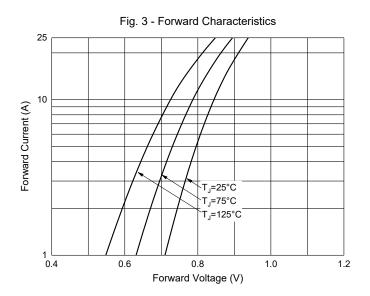
#### Note:

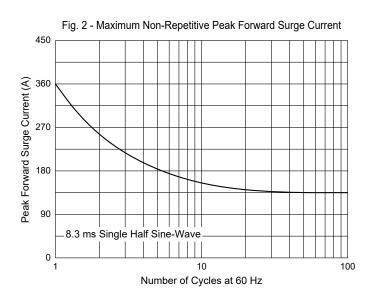
- 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.
- 2. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

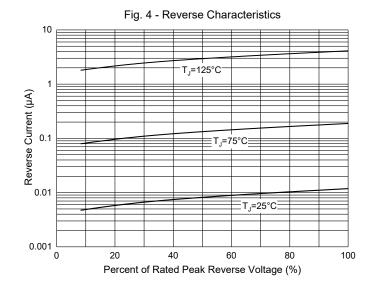


## **Curve Characteristics**











### **Ordering Information**

Device	Packing	
Part Number-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton	

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

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