

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: 1.8°C/W Junction to Case (Note 2)
- Typical Thermal Resistance: 23°C/W Junction to Ambient (Note 2)

Mechanical Data

Mounting Torque: 5in-lbs

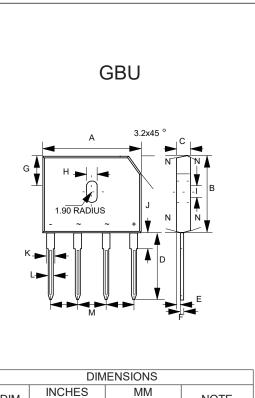
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU15L06	GBU15L06	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	15A	T _c =100°C,With Heatsink
Peak Forward Surge Current	I _{FSM}	250A 500A	8.3ms,Half Sine Wave 1.0ms,Square Wave
Current Squared Time	l²t	259A ² s	1ms≤t <8 .3ms,Tյ=25°C, Rating of Per Diode
Maximum Instantaneous Forward Voltage	V _F	0.92V 0.86V(Typ.) 0.80V	I _{FM} =7.5A; T _J =25⁰C I _{FM} =7.5A; T _J =125⁰C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J =25°C; T _J =125°C;
Dielectric Strength	Vdis	2.5KV	Terminals to Case, AC 1 Minute
Typical Junction Capacitance	CJ	160pF	Measured at 1.0MHz VR=4.0V
Maximum Reverse Recovery Time	t _{rr}	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.

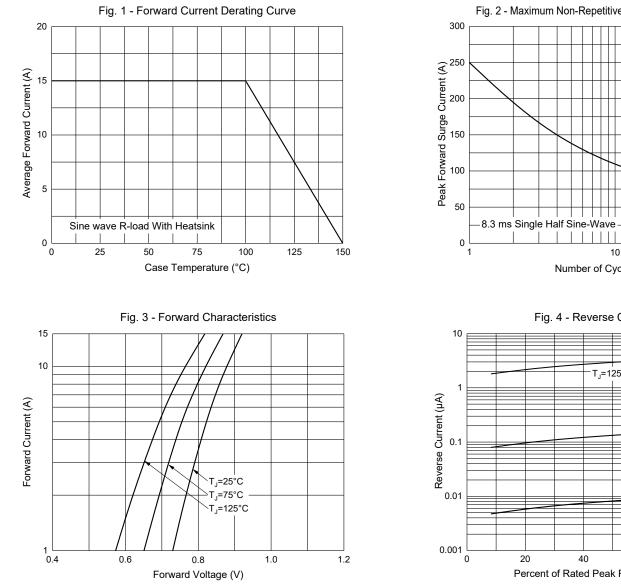
15 Amp Low VF Bridge Rectifier 600 Volts

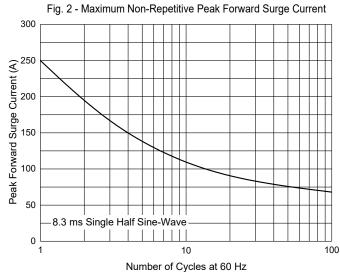


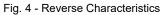
DIM	INC	HES	M	М	NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.860	0.880	21.80	22.30	
В	0.720	0.740	18.30	18.80	
С	0.130	0.142	3.30	3.60	
D	0.690	0.717	17.50	18.20	
Е	0.030	0.039	0.76	1.00	
F	0.018	0.024	0.46	0.60	
G	0.290	0.310	7.40	7.90	
Н	0.140	0.160	3.50	4.10	
I	0.065	0.085	1.65	2.16	
J	0.060	0.096	1.52	2.45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

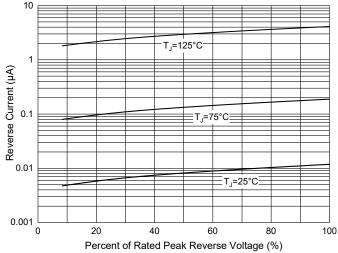


Curve Characteristics











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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