

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 Surge Overload Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1°C/W Junction to Case (Note 2)
- Thermal Resistance: 25°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
GBU2510S	GBU2510S	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

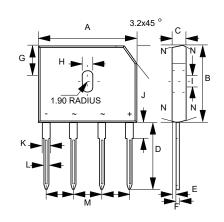
Average Forward Current	I _{F(AV)}	25A 3.5A	T _C = 100°C,With Heatsink T _A = 25°C,Without Heatsink
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V _F	1.0V	I_{FM} = 12.5A Per Diode; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100uA	T _J = 25°C T _J = 125°C
Dielecric Strength	V _{ISO}	2.5KV	Terminals to Case, AC 1 Minute
Rating for Fusing	I ² t	374 A ² s	t<8.3ms
Typical Junction Capacitance	CJ	100 pF	Measured at 1.0MHz, V _R =4.0V

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 Single Phase Glass Passivated Bridge Rectifier 1000 Volts





	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	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			
M	0.190	0.210	4.83	5.33			
N	N 7.0° TYPICAL						



Curve Characteristics

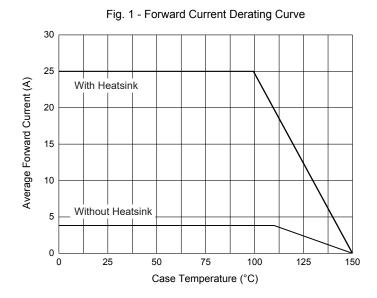


Fig. 3 - Typical Instantaneous Forward Characteristics

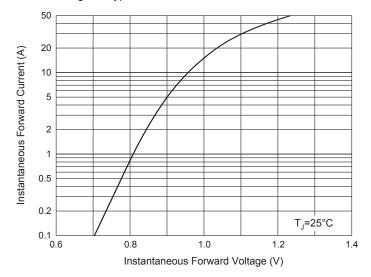


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

350

250

250

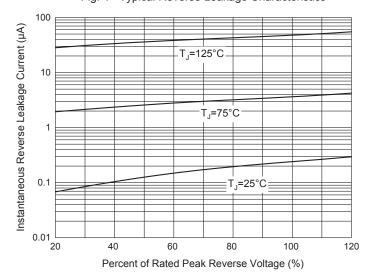
150

8.3 ms Single Half Sine-Wave

0

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage 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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