Micro Commercial Components

	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
- Moisture Sensitivity Level 1
- High Current Capability

25 Amp Glass Passivated Bridge Rectifier 50 - 1000 Volts

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
- Thermal Resistance:5.5°C/W Junction to Ambient (with heatsink)
- Thermal Resistance:22°C/W Junction to Ambient (without heatsink)

Mechanical Data

- Mounting Torque: 5in-lbs

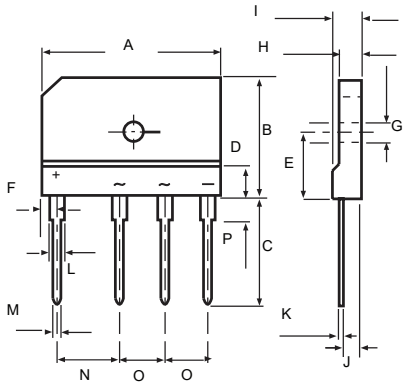
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ25005	GBJ25005	50V	35V	50V
GBJ2501	GBJ2501	100V	70V	100V
GBJ2502	GBJ2502	200V	140V	200V
GBJ2504	GBJ2504	400V	280V	400V
GBJ2506	GBJ2506	600V	420V	600V
GBJ2508	GBJ2508	800V	560V	800V
GBJ2510	GBJ2510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25A	T_C= 100°C
Peak Forward Surge Current	I_{FSM}	350A 700A	8.3ms, Half Sine 1.0ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	I_{FM} = 12.5A;T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 500μA	T_J = 25°C T_J = 125°C
Typical Junction Capacitance	C_J	85pF	Measured at 1.0MHz, V_R=4.0V
Rating for Fusing	I^2t	510 A^2s	t<8.3ms
Dielectric Strength@ Terminals to Case,AC 1 Minute	Vdis	2KV	

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

GBJ



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.170	1.190	29.70	30.30	
B	0.780	0.800	19.70	20.30	
C	0.670	0.710	17.00	18.00	
D	0.190	0.190	4.70	4.90	
E	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	
H	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	
M	0.040	0.040	0.90	1.10	
N	0.390	0.400	9.80	10.20	
O	0.290	0.300	7.30	7.70	
P	0.150	0.170	3.80	4.20	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

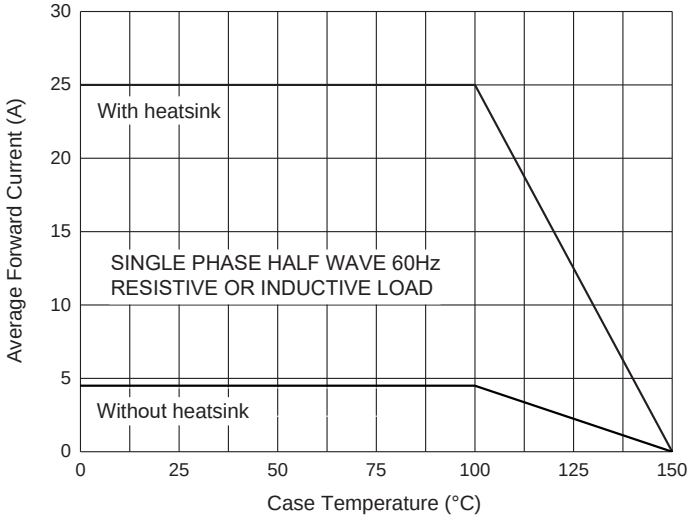


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

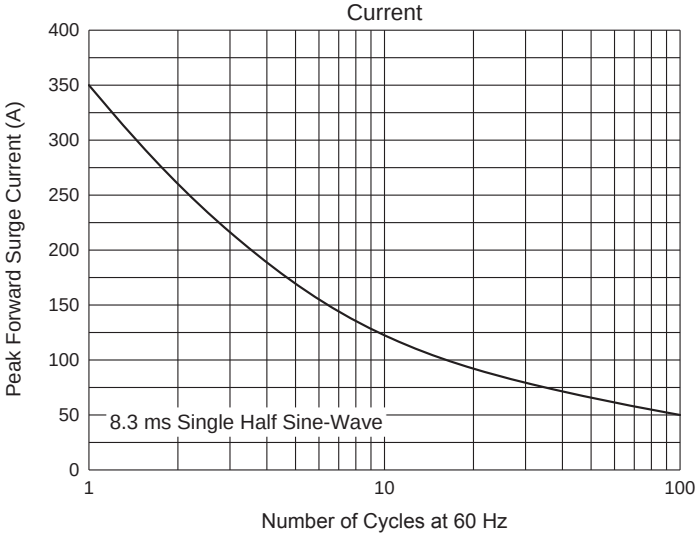


Fig. 3 - Typical Instantaneous Forward Characteristics

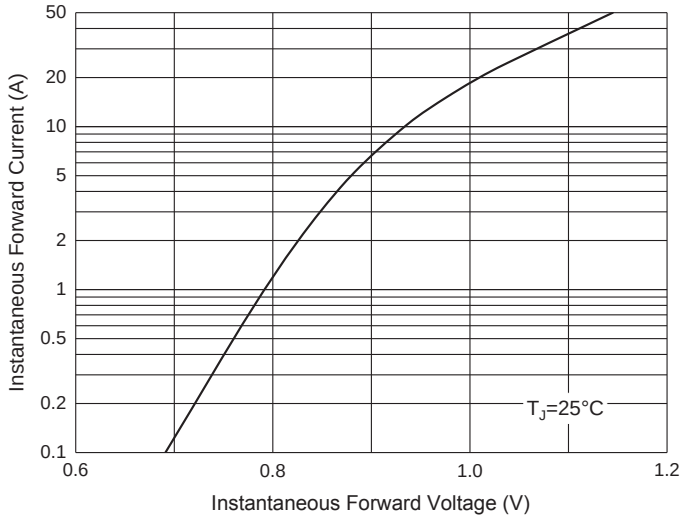
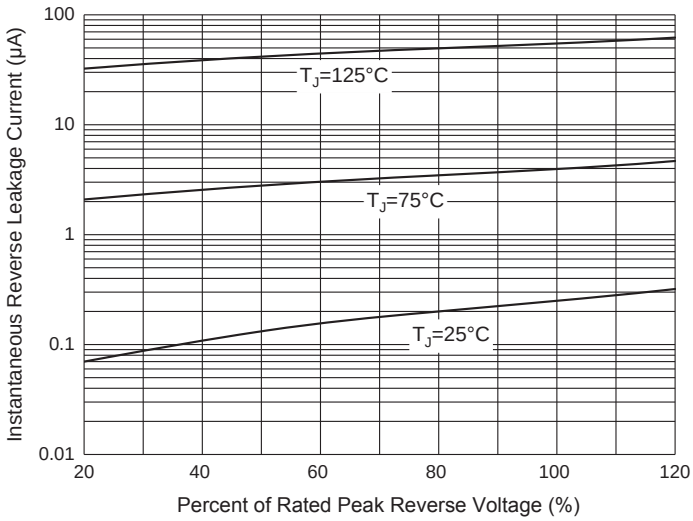


Fig. 4 - Typical Reverse Leakage Characteristics



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