

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Glass Passivated Chip Junction
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

25 Amp Bridge Rectifier 1600 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

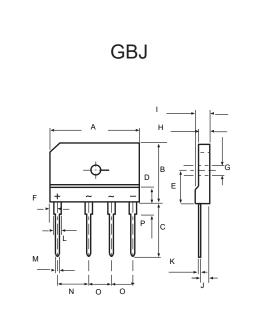
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	1600	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	1120	V
Average Rectified Forward Current @ T _C =100°C (With Heatsink)	I _{F(AV)}	25	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		400	А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	800	A
l²t Rating for Fusing @1ms≤t≤8.3ms	I ² t	664	A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5	KV

AC 1 Minute

Internal Structure

Simplified Outline	Graphic Symbol		
MCC GBJ2510H A			
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Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOIL		
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			
M	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			



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		1		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		18		°C/W

Note:

Mechanical Data

Recommended Mounting Torque: 5in·lbs(#6 Screw)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =12.5A;T _J =25°C		1.0	1.2	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			10 1000	μА
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		135		pF

^{1.}Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.



Curve Characteristics

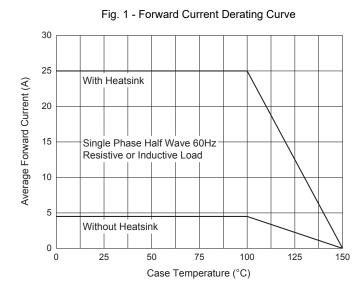
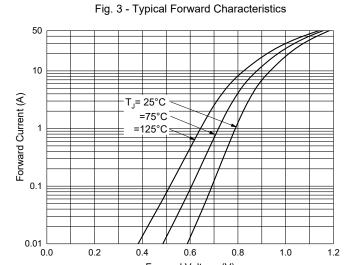
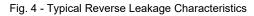


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current





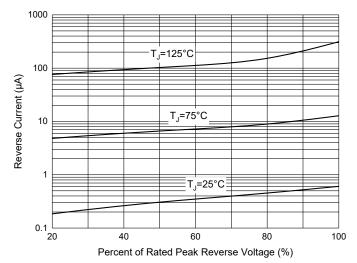
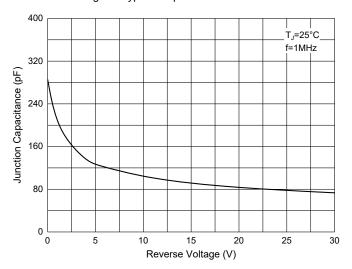


Fig. 5 - Typical Capacitance Characteristics

Forward Voltage (V)





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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