



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)

10 Amp Super Fast Recovery Bridge Rectifiers 600 Volts

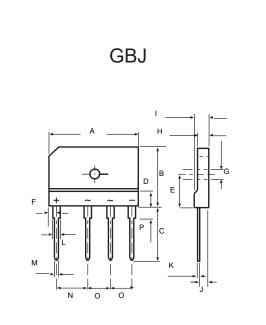
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	600	٧	
DC Blocking Voltage	V_R			
RMS Reverse Voltage	V_{RMS}	420	V	
Average Rectified Forward Current @ T _C =125°C (With Heatsink)		10	^	
Average Rectified Forward Current @ T _A =25°C (Without Heatsink)	I _{F(AV)}	3.2	A	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		175		
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	350	Α	
I²t Rating for Fusing @1ms≤t≤8.3ms	I ² t	127	A ² s	
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5	KV	

Internal Structure

Simplified Outline	Graphic Symbol
MCC EGBJ1006 91	
	+ ~ ~ -

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



	DIMENSIONS						
DIM INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE		
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			
М	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		1.5		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		18		°C/W

Note:

Mechanical Data

Recommended Mounting Torque: 5 in·lbs

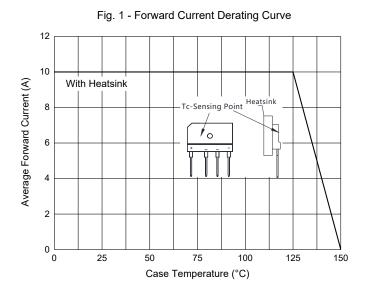
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =5A;T _J =25°C			1.7	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 100	uA
Reverse Recovery Time	t _{rr}	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A;T _J =25°C			35	nS
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		55		pF

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



Curve Characteristics



Current

(V) 1150

8.3 ms Single Half Sine-Wave

1 10 100

Number of Cycles at 60 Hz

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Fig. 3 - Typical Forward Characteristics

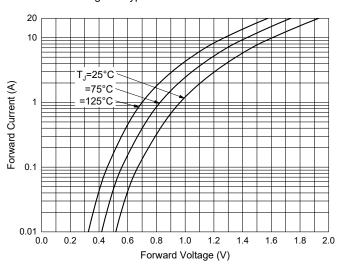


Fig. 4 - Typical Reverse Leakage Characteristics

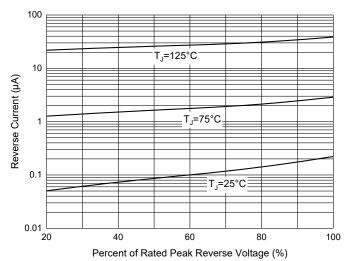
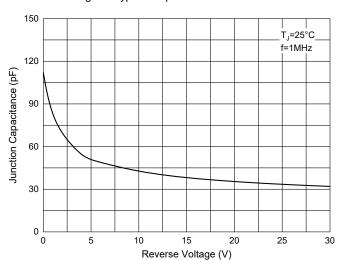


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

Device	Packing
EGBJ1006-BP	Bulk:15pcs/Tube,750pcs/Box,1500pcs/Carton

Note: Adding "-HF" Suffix For Halogen Free, eg. EGBJ1006-BP-HF

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