

Features

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

15 Amp Low VF Bridge Rectifier 800 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Para	Symbol	Value	Unit	
Peak Repetitive Re	V_{RRM}			
Working Peak Rev	V_{RWM}	800	V	
DC Blocking Voltage	ge	V _R		
RMS Reverse Volta	age	V _{RMS}	560	V
Average Rectified Forward Current	With Heatsink;T _C =128°C		15	А
	Without Heatsink;T _A =25°C	I _{F(AV)}	3.2	A
Non-Repetitive Pe Current @8.3ms H	I _{FSM}	250		
Non-Repetitive Pe Current @1ms Squ		500	A	
Current Squared T @ 1ms≤t≤8.3ms	l ² t	259	A ² s	
Dielectric Strength @ Terminals to Ca	V _{dis}	2.5	KV	
Recommend Moun	Tor	5	in-lbs	

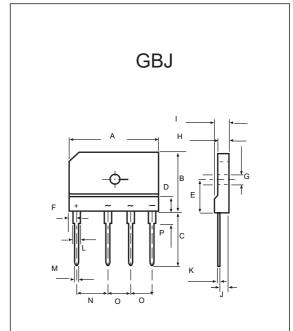
Marking Code

Part Number	Marking Code
GBJ15L08	GBJ15L08

Internal Structure

Simplified Outline	Graphic Symbol		
MCC GBJ15L08 9/1 O	+ ~ ~ -		

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



	DIMENSIONS						
DIM	INC	HES	MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	INOTE		
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			
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			
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)		0.8		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	(Note 2)		18		°C/W

Note:

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

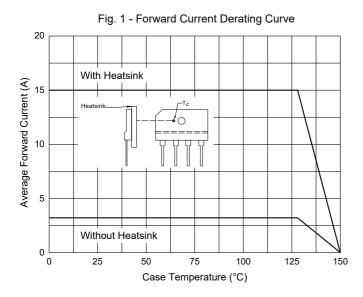
Electrical Characteristics @ 25°C Unless Otherwise Specified

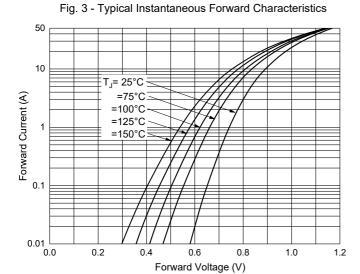
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =7.5A;T _J =25°C		0.86	0.92	V
Per Diode		I _F =7.5A;T _J =125°C		0.74	0.80	V
Reverse Current	I _R	V _R =800V;T _J =25°C			5	uA
		V _R =800V;T _J =125°C			50	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		115		pF

^{2.} Without Heatsink, Free Air.



Curve Characteristics





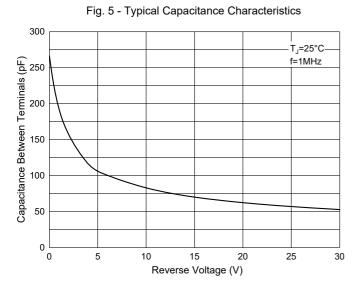


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

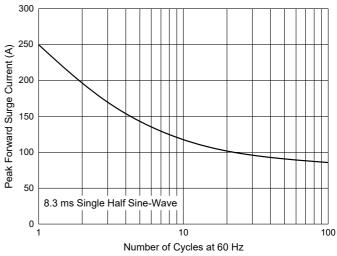
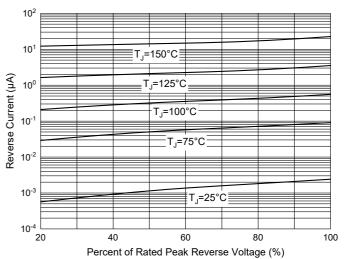


Fig. 4 - Typical Reverse Leakage Characteristics





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

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