

71	E502650
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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

25 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 Voltag	ge	V _R			
RMS Reverse Volta	age	V _{RMS}	560	V	
Average Rectified	With Heatsink;T _C =115°C		25	۸	
Forward Current	Without Heatsink;T _A =25°C	· I _{F(AV)}	4.5	Α	
Non-Repetitive Pe Current @8.3ms H	I _{FSM}	360			
Non-Repetitive Pe Current @1ms Squ		720	Α		
Current Squared T @ 1ms≤t≤8.3ms	l ² t	538	A ² s		
Dielectric Strength @ Terminals to Ca	V _{dis}	2.5	KV		
Recommend Moun	Tor	5	in-lbs		

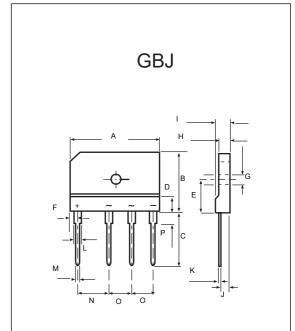
Marking Code

Part Number	Marking Code
GBJ25L08	GBJ25L08

Internal Structure

Simplified Outline	Graphic Symbol
MCC GBJ25L08 9/1 O	+ ~ ~ -

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			
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
TJ	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.

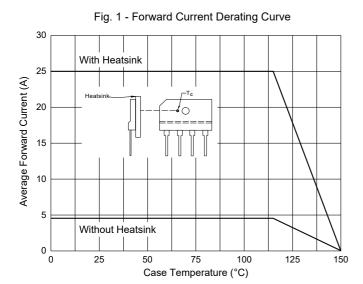
Electrical Characteristics @ 25°C Unless Otherwise Specified

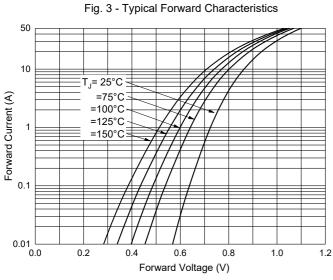
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =12.5A;T _J =25°C		0.88	0.92	V
Per Diode		I _F =12.5A;T _J =125°C		0.77	0.82	V
Reverse Current	I _R	V _R =800V;T _J =25°C			5	uA
		V _R =800V;T _J =125°C			50	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		165		pF

^{2.} Without Heatsink, Free Air.



Curve Characteristics





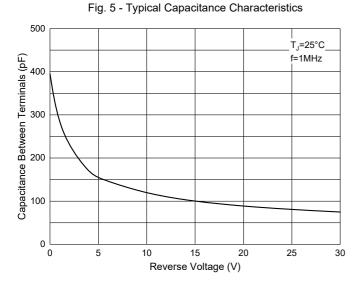
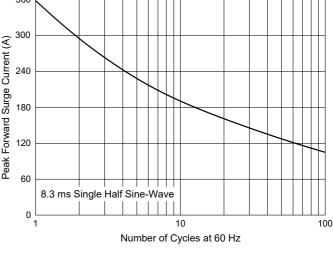
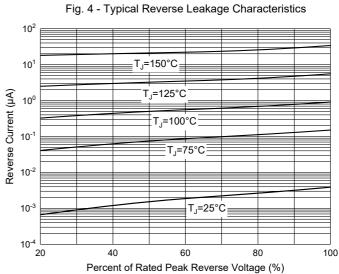


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current 360 900 Peak Forward Surge Current (A) 180 Peak Forward Surge Current (A) 60 Peak Forward Surge Current (B) 190 Peak Forward (B) 190 60 8.3 ms Single Half Sine-Wave 0







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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