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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

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 Voltag	ge	V_R			
RMS Reverse Volta	age	V _{RMS}	560	V	
Average Rectified	With Heatsink;T _C =110°C		15	^	
Forward Current	Without Heatsink;T _A =25°C	· I _{F(AV)}	3.5	A	
Non-Repetitive Pe Current @8.3ms H	I _{FSM}	220			
Non-Repetitive Pe Current @1ms Squ		440	A		
Current Squared T @ 1ms≤t≤8.3ms	l²t	201	A ² s		
Dielectric Strength @ Terminals to Ca	V _{dis}	2.5	KV		
Recommend Moun	Tor	5	in-lbs		

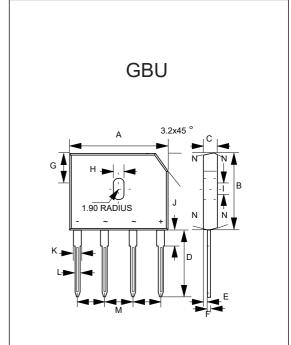
Marking Code

Part Number	Marking Code
GBU15L08	GBU15L08

Internal Structure

Simplified Outline	Graphic Symbol		
MCC 91 GBU 15L08 - AC +	- ~ ~ +		

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



DIMENSIONS NOTE							
DIM MIN MAX MIN MAX A 0.860 0.880 21.80 22.30 B 0.720 0.740 18.30 18.80 C 0.130 0.142 3.30 3.60 D 0.690 0.717 17.50 18.20 E 0.030 0.039 0.76 1.00 F 0.018 0.024 0.46 0.60 G 0.290 0.310 7.40 7.90 H 0.140 0.160 3.50 4.10 I 0.065 0.085 1.65 2.16 J 0.060 0.096 1.52 2.45 K 0.077 0.098 1.95 2.50 L 0.040 0.050 1.02 1.27 M 0.190 0.210 4.83 5.33	DIMENSIONS						
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H 0.140 0.160 3.50 4.10 I 0.065 0.085 1.65 2.16 J 0.060 0.096 1.52 2.45 K 0.077 0.098 1.95 2.50 L 0.040 0.050 1.02 1.27 M 0.190 0.210 4.83 5.33	F	0.018	0.024	0.46	0.60		
I 0.065 0.085 1.65 2.16 J 0.060 0.096 1.52 2.45 K 0.077 0.098 1.95 2.50 L 0.040 0.050 1.02 1.27 M 0.190 0.210 4.83 5.33	G	0.290	0.310	7.40	7.90		
J 0.060 0.096 1.52 2.45 K 0.077 0.098 1.95 2.50 L 0.040 0.050 1.02 1.27 M 0.190 0.210 4.83 5.33	Н	0.140	0.160	3.50	4.10		
K 0.077 0.098 1.95 2.50 L 0.040 0.050 1.02 1.27 M 0.190 0.210 4.83 5.33	I	0.065	0.085	1.65	2.16		
L 0.040 0.050 1.02 1.27 M 0.190 0.210 4.83 5.33	J	0.060	0.096	1.52	2.45		
M 0.190 0.210 4.83 5.33	K	0.077	0.098	1.95	2.50		
	L	0.040	0.050	1.02	1.27		
NI ZOS TVOICAL	M	0.190	0.210	4.83	5.33		
N / 7.0° TYPICAL	N	7.0° TYPICAL					



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)		1.4		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	(Note 2)		25		°C/W

Note:

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

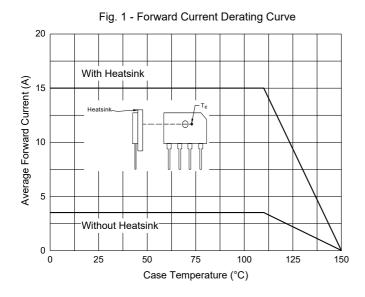
Electrical Characteristics @ 25°C Unless Otherwise Specified

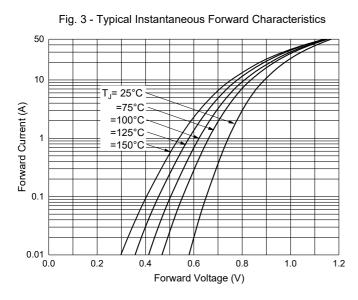
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =7.5A;T _J =25°C		0.86	0.92	V
Per Diode		I _F =7.5A;T _J =125°C		0.74	0.80	V
Reverse Current	I _R	V _R =800V;T _J =25°C			5	uA
		V _R =800V;T _J =125°C			50	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		115		pF

^{2.} Without Heatsink, Free Air.



Curve Characteristics





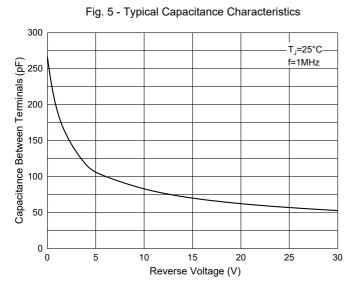


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

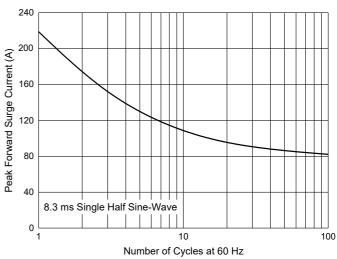
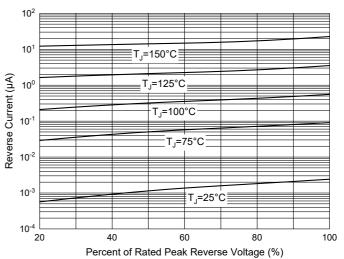


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton

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

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