

SU E502650	
-------------------	--

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	meter	Symbol	Value	Unit	
Peak Repetitive Re	V_{RRM}				
Working Peak Rev	erse Voltage	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		25	٨	
Forward Current	Without Heatsink;T _A =25°C	· I _{F(AV)}	4	Α	
Non-Repetitive Pe Current @8.3ms H	I _{FSM}	360			
Non-Repetitive Pe Current @1ms Squ		700	А		
Current Squared T @ 1ms≤t≤8.3ms	l²t	538	A ² s		
Dielectric Strength @ Terminals to Ca	V _{dis}	2.5	KV		
Recommend Moun	Tor	5	in-lbs		

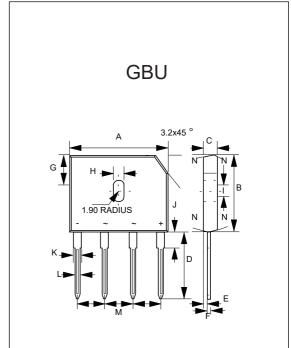
Marking Code

Part Number	Marking Code
GBU25L08	GBU25L08

Internal Structure

Simplified Outline	Graphic Symbol
MCC 91 GBU 25L08 - AC +	- ~ ~ +

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



DIMENSIONS					
DIM	INCHES		M	IM	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.860	0.880	21.80	22.30	
В	0.720	0.740	18.30	18.80	
С	0.130	0.142	3.30	3.60	
D	0.690	0.717	17.50	18.20	
Е	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	
Н	0.140	0.160	3.50	4.10	
- 1	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	
М	0.190	0.210	4.83	5.33	
N	7.0° TYPICAL				



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	۰C
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

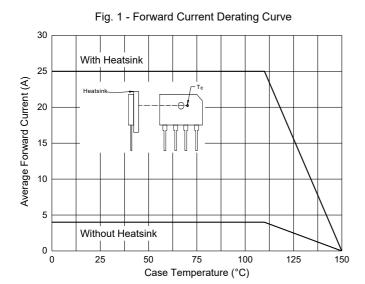
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =12.5A;T _J =25°C		0.88	0.92	V
Per Diode		I _F =12.5A;T _J =125°C		0.77	0.82	V
Reverse Current	I _R	V _R =800V;T _J =25°C			5	uA
		V _R =800V;T _J =125°C			50	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		165		pF

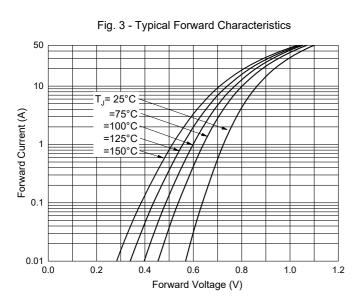
^{2.} Without Heatsink, Free Air.

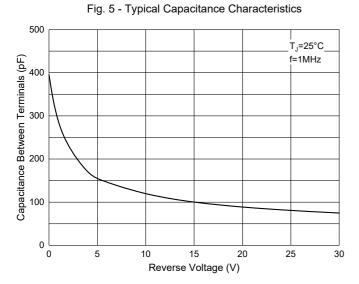
100



Curve Characteristics







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

0

8.3 ms Single Half Sine-Wave

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

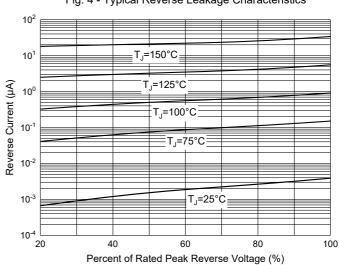


Fig. 4 - Typical Reverse Leakage Characteristics

Number of Cycles at 60 Hz



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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp.** products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.