

91.

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

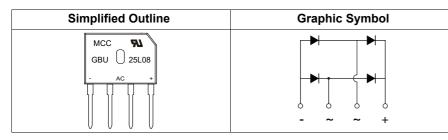
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Para	Symbol	Value	Unit	
Peak Repetitive Re	V _{RRM}			
Working Peak Rev	V _{RWM}	800	V	
DC Blocking Voltag	V _R			
RMS Reverse Volta	V _{RMS}	560	V	
Average Rectified Forward Current	With Heatsink;T _c =110°C		25	^
	Without Heatsink;T _A =25°C	I _{F(AV)}	4	A
Non-Repetitive Pe Current @8.3ms H	I _{FSM}	360		
Non-Repetitive Pe Current @1ms Squ		700	A	
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

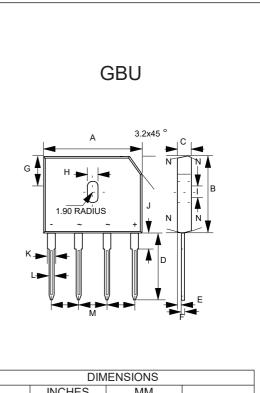
Part Number	Marking Code
GBU25L08	GBU25L08

Internal Structure



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

25 Amp Low VF Bridge Rectifier 800 Volts



DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
А	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	
Ι	0.065	0.085	1.65	2.16	
J	0.060	0.096	1.52	2.45	
Κ	0.077	0.098	1.95	2.50	
L	0.040	0.050	1.02	1.27	
Μ	0.190	0.210	4.83	5.33	
Ν		7.0° TY	PICAL		



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Мах	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.

2.Without Heatsink, Free Air.

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



Curve Characteristics



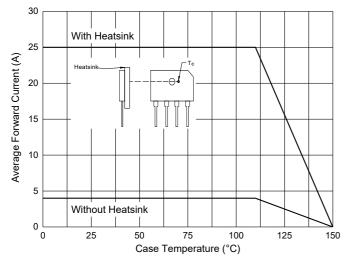


Fig. 3 - Typical Forward Characteristics

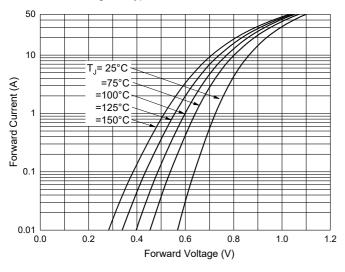
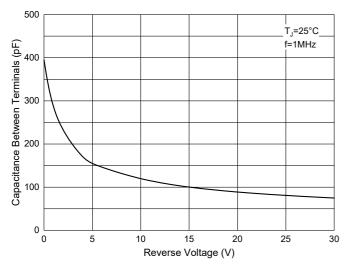


Fig. 5 - Typical Capacitance Characteristics



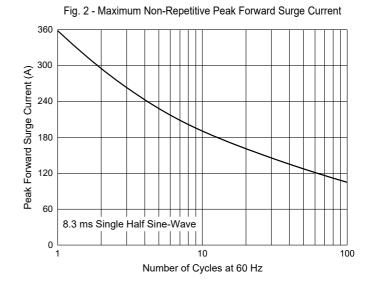
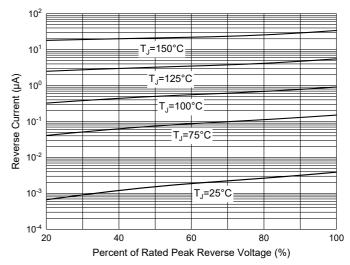


Fig. 4 - Typical Reverse Leakage Characteristics





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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