

FL E502650

Features

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

25 Amp Low VF Bridge Rectifiers 600 Volts

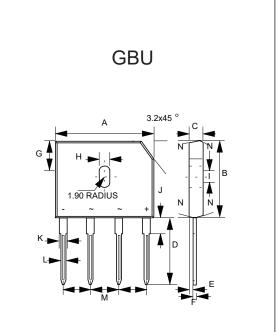
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	420	V
Average Rectified Forward Current @ T _C =110°C (With Heatsink)		25	
Average Rectified Forward Current @ T _A =25°C (Without Heatsink)	I _{F(AV)}	4	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		360	٨
Non-Repetitive Peak Surge Current @ 1ms Square Wave	- I _{FSM}	720	Α
l²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	538	A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5	KV

Internal Structure

Simplified Outline	Graphic Symbol
MCC 71 GBU 25L06	
- AC +	

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



DIMENSIONS						
DIM INCHE		HES	HES MM		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		
	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	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		1.2		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		25		°C/W

Note:

Mechanical Data

Recommended Mounting Torque: 5 in-lbs

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =12.5A;T _J =25°C I _F =12.5A;T _J =125°C		0.87 0.75	0.92 0.80	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 50	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		185		pF

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



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25

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Curve Characteristics

Fig. 1 - Forward Current Derating Curve

With Heatsink

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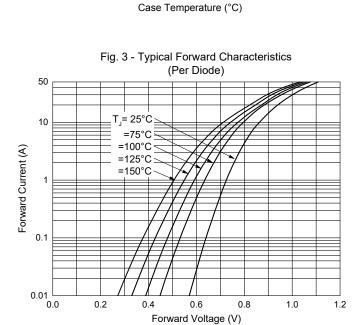
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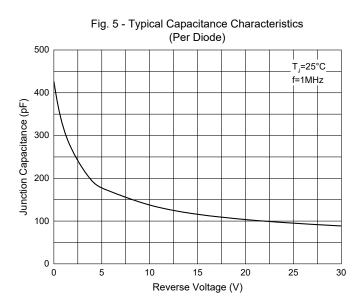
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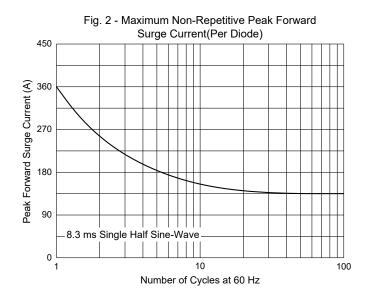
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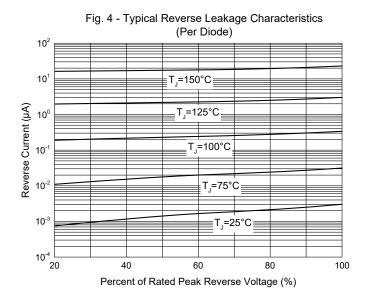
125

150











Ordering Information

Device	Packing		
GBU25L06-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton		

Note: Adding "-HF" Suffix For Halogen Free, eg. GBU25L06-BP-HF

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