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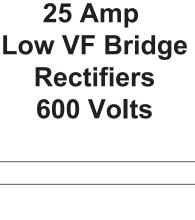
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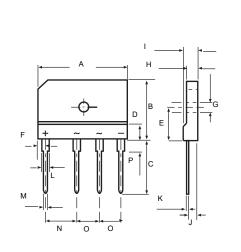
Features

- 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)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V _{RWM}	600	
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	V_{RMS}	420	V
Average Rectified Forward Current @ T _c =115°C (With Heatsink)	I	25	•
Average Rectified Forward Current @ $T_A=25$ °C (Without Heatsink)	I _{F(AV)}	4.5	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	360	А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	720	A
I²t 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	ΚV

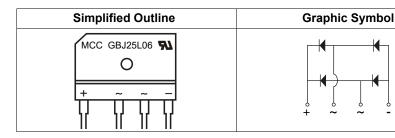




GBJ

DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	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	
Κ	0.020	0.030	0.60	0.80	
L	0.080	0.090	2.00	2.40	
Μ	0.040	0.040	0.90	1.10	
Ν	0.390	0.400	9.80	10.20	
0	0.290	0.300	7.30	7.70	
Ρ	0.150	0.170	3.80	4.20	

Internal Structure



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



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		0.8		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		18		°C/W

Note:

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

Mechanical Data

Recommended Mounting Torque: 5 in-lbs

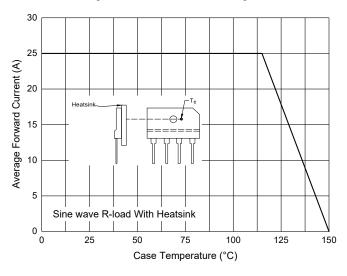
Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

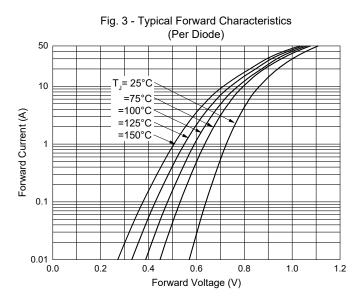
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =12.5A;T _J =25°C I _F =12.5A;T _J =125°C		0.87 0.75	0.92 0.80	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 50	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		185		pF

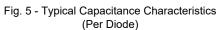


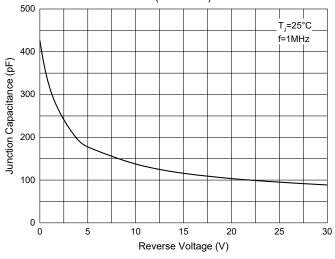
Curve Characteristics

Fig. 1 - Forward Current Derating Curve









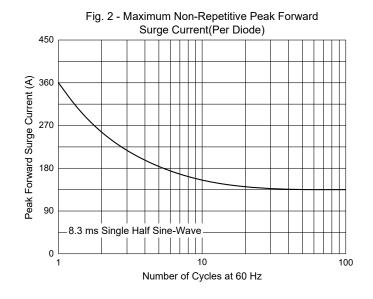
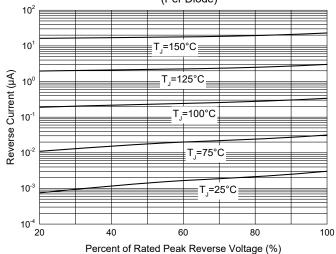


Fig. 4 - Typical Reverse Leakage Characteristics (Per Diode)





Ordering Information

Device	Packing			
GBJ25L06-BP	Bulk:15pcs/Tube,750pcs/Box,1500pcs/Carton			

Note : Adding "-HF" Suffix For Halogen Free, eg. GBJ25L06-BP-HF

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