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E502650

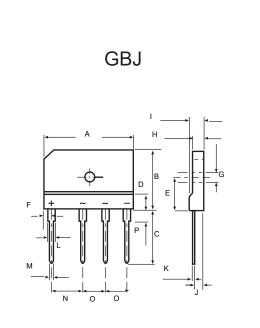
Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Glass Passivated Chip Junction
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

10 Amp Bridge Rectifier 1000 Volts

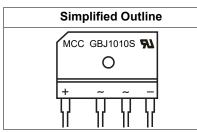
Maximum Ratings @ 25°C (Unless Otherwise Specified)

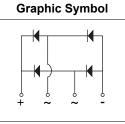
		Value	
Parameter	Symbol	GBJ1010S	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	1000	V
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	V _{RMS}	700	V
Average Rectified Forward Current	I _{F(AV)}	10 (T _C =110°C,With Heatsink) 3.5 (T _A =25°C,Without Heatsink)	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I	175	- A
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	350	- A
l²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	127	
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5	КV



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	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	
Ι	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	
Р	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	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		2		°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: 5in·lbs

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =5A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		53		pF



Curve Characteristics

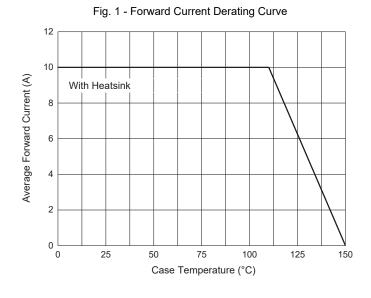


Fig. 3 - Typical Forward Characteristics

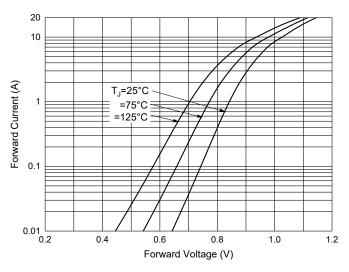
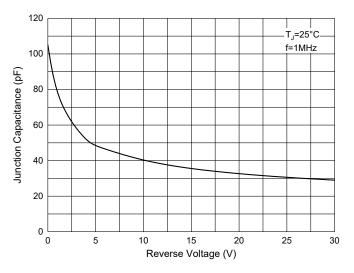


Fig. 5 - Typical Capacitance Characteristics



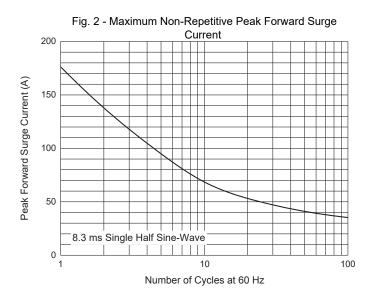
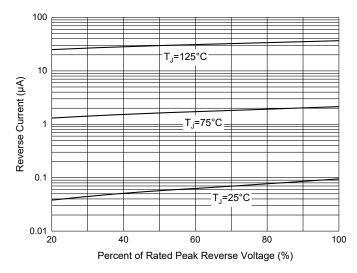


Fig. 4 - Typical Reverse Leakage Characteristics







Ordering Information

Device	Packing		
GBJ1010S-BP	Bulk:15pcs/Tube,750pcs/Box,1500pcs/Carton		

Note : Adding "-HF" Suffix For Halogen Free, eg. GBJ1010S-BP-HF

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