



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)

2 Amp Single-Phase Bridge Rectifier 1000 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

_		Value	
Parameter	Symbol	GBL210S	
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	٧
Average Rectified Forward Current @T _A =25°C	I _{F(AV)}	2	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	90	Α
Non-Repetitive Peak Surge Current @ 1ms Square Wave	IFSM	180	ζ
I²t Rating for Fusing @1ms≤t≤8.3ms	I ² t	33.6	A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.0	KV

Internal Structure

Simplified Outline		Graphic Symbol	
MCC • GBL210S • -	XXXXX: Marking Code	+ ~ ~ -	

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

DIMENSIONS						
DIM INCHES		M	М	NOTE		
Dilvi	MIN	MAX	MIN	MAX	NOIL	
Α	0.118 X 0.118		3.0 X 3.0		X 45°	
В	0.756	0.835	19.20	21.20		
С	0.413	0.453	10.50	11.50		
D	0.512	0.591	13.00	15.00		
F	0.193	0.201	4.90	5.10		
G	0.039	0.047	1.00	1.20		
J	0.047	0.071	1.20	1.80		
K	0.079	0.118	2.00	3.00		
L	0.035	0.043	0.90	1.10		
М	0.020	0.027	0.50	0.70		
N	0.118	0.157	3.00	4.00		



Thermal characteristics

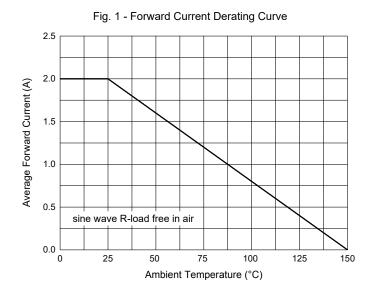
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case			10		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient			47		°C/W

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 100	μА
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		25		pF



Curve Characteristics



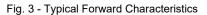
8.3 ms Single Half Sine-Wave

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

120

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



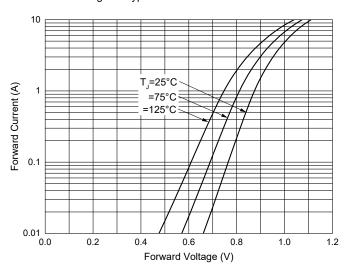


Fig. 4 - Typical Reverse Leakage Characteristics

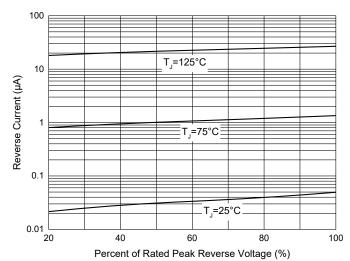
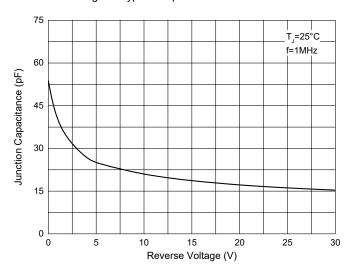


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

Device	Packing		
GBL210S-BP	Bulk:22pcs/Tube,1100pcs/Box,4400pcs/Carton		

Note: Adding "-HF" Suffix For Halogen Free, eg. GBL210S-BP-HF

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