

FL E502650

Features

- 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)

25 Amp Bridge Rectifier 1600 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	1600	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	1120	٧
Average Rectified Forward Current @ T _C =125°C (With Heatsink)	I _{F(AV)}	25	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	_	400	•
Non-Repetitive Peak Surge Current @ 1ms Square Wave	- I _{FSM}	800	Α
l²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	664	A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5	KV

SGBJ

DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	1.366	1.390	34.70	35.30		
В	0.972	0.996	24.70	25.30		
С	0.669	0.693	17.00	17.60		
D	0.220	0.244	5.60	6.20		
E	0.150	0.173	3.80	4.40		
F	0.283	0.307	7.20	7.80		
G	0.016	0.024	0.40	0.60		
Н	0.035	0.043	0.90	1.10		
- 1	0.087	0.094	2.20	2.40		
J	0.087	0.102	2.20	2.60		
K	0.134	0.150	3.40	3.80		
L	0.173	0.189	4.40	4.80		
M	0.547	0.571	13.90	14.50		
N	0.124	0.144	3.15	3.65		
Р	0.026	0.030	0.65	0.75		
R1	0.106	0.146	2.70	3.70		
R2	0.264	0.287	6.70	7.30		

Internal Structure

Simplified Outline	Graphic Symbol		
MCC SGBJ2516 🔊	H • H		
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Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.



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

Note:

Mechanical Data

Recommended Mounting Torque: 5kg·cm

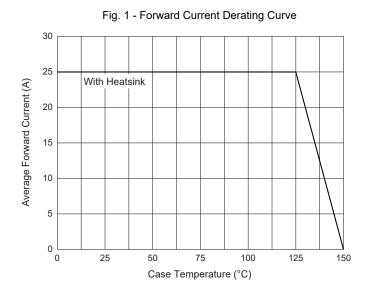
Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

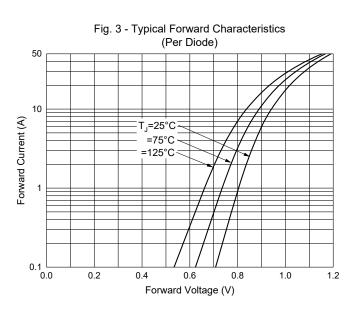
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =12.5A;T _J =25°C			1.05	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 500	μΑ
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		115		pF

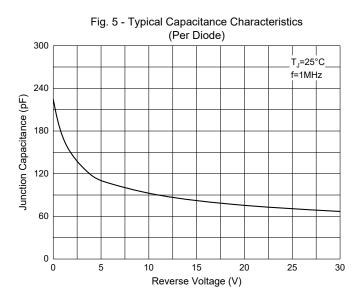
^{1.}Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

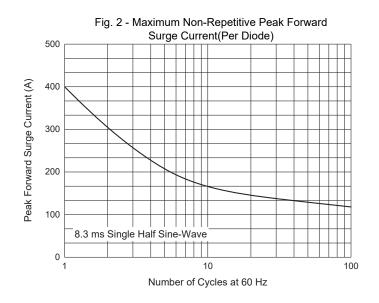


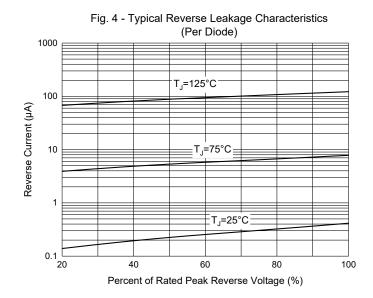
Curve Characteristics













Ordering Information

Device	Packing
Part Number-BP	Bulk:10pcs/Tube,1000pcs/Carton

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