

FL

E502650

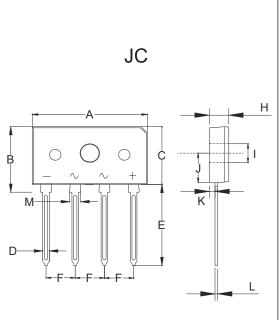
Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates
- RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

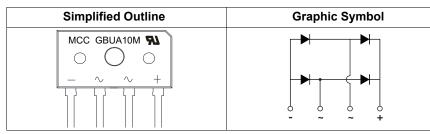
10 Amp Bridge Rectifiers 1000 Volts

Parameter	Symbol	Value	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 @ T_c =105°C (With Heatsink)		10		
Average Rectified Forward Current @ T_a =25°C (Without Heatsink)	I _{F(AV)}	2.5	A	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	175	А	
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	350	A	
I²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	127	A²s	
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.0	KV	



MIN MAX Min Mini function Mini function	DIM	INC	HES	MM		NOTE
B 0.453 0.484 11.50 12.30 C 0.398 0.429 10.10 10.90 D 0.039 0.051 1.00 1.30 E 0.559 0.591 14.20 15.00 F 0.192 0.208 4.88 5.28 H 0.122 0.146 3.10 3.70 I 0.116 0.132 2.95 3.35 J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	DIW	MIN	MAX	MIN	MAX	NOTE
C 0.398 0.429 10.10 10.90 D 0.039 0.051 1.00 1.30 E 0.559 0.591 14.20 15.00 F 0.192 0.208 4.88 5.28 H 0.122 0.146 3.10 3.70 I 0.116 0.132 2.95 3.35 J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	А	0.772	0.803	19.60	20.40	
D 0.039 0.051 1.00 1.30 E 0.559 0.591 14.20 15.00 F 0.192 0.208 4.88 5.28 H 0.122 0.146 3.10 3.70 I 0.116 0.132 2.95 3.35 J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	В	0.453	0.484	11.50	12.30	
E 0.559 0.591 14.20 15.00 F 0.192 0.208 4.88 5.28 H 0.122 0.146 3.10 3.70 I 0.116 0.132 2.95 3.35 J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	С	0.398	0.429	10.10	10.90	
F 0.192 0.208 4.88 5.28 H 0.122 0.146 3.10 3.70 I 0.116 0.132 2.95 3.35 J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	D	0.039	0.051	1.00	1.30	
H 0.122 0.146 3.10 3.70 I 0.116 0.132 2.95 3.35 J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	Е	0.559	0.591	14.20	15.00	
I 0.116 0.132 2.95 3.35 J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	F	0.192	0.208	4.88	5.28	
J 0.209 0.232 5.30 5.90 K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	Н	0.122	0.146	3.10	3.70	
K 0.028 0.051 0.70 1.30 L 0.012 0.024 0.30 0.60	I	0.116	0.132	2.95	3.35	
L 0.012 0.024 0.30 0.60	J	0.209	0.232	5.30	5.90	
	K	0.028	0.051	0.70	1.30	
M 0.067 0.083 1.70 2.10	L	0.012	0.024	0.30	0.60	
	М	0.067	0.083	1.70	2.10	

Internal Structure



Note:

1.Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds. 2.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		2.2		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		30		°C/W

Note:

1.Device mounted on 75mm x 45mm x 5.5mm aluminum plate heatsink.

Mechanical Data

Recommended Mounting Torque: 0.5 N•m

Electrical Characteristics @ 25°C Unless Otherwise Specified

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		50		pF



Curve Characteristics



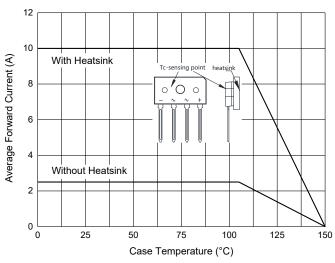


Fig. 3 - Typical Forward Characteristics

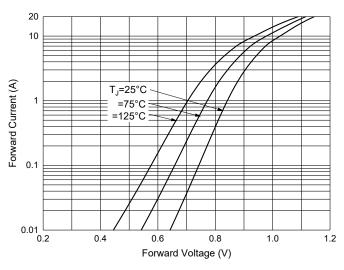
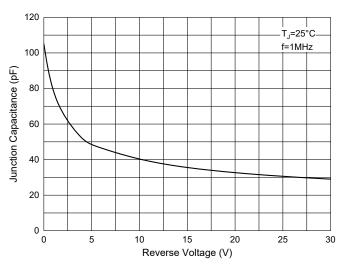


Fig. 5 - Typical Capacitance Characteristics



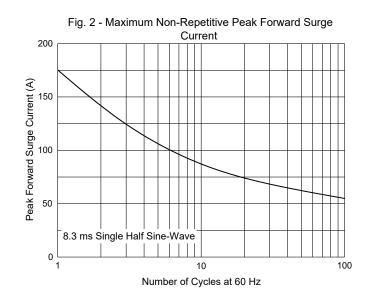
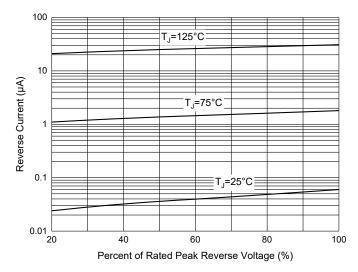


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-BP	Bulk:25pcs/Tube,625pcs/Box,5000pcs/Carton

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