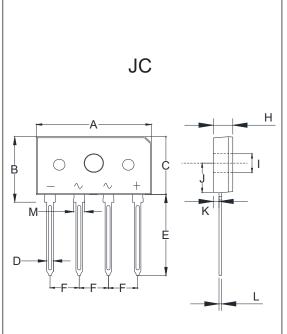


AI. E502650 **Features** 4 Amp • Halogen Free. "Green" Device (Note 1) Glass Passivated Chip Junction High Surge Forward Current Capability Epoxy Meets UL 94 V-0 Flammability Rating Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

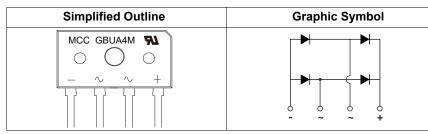
Bridge Rectifiers 1000 Volts

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 =130°C (With Heatsink)		4	А	
Average Rectified Forward Current @ T_a =25°C (Without Heatsink)	I _{F(AV)}	2	A	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave			135	А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	270	A	
l ² t Rating for Fusing @1ms≤t≤8.3ms	l ² t	75.6	A²s	
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.0	κv	



MIN MAX Min Min <th>DIM</th> <th colspan="2">INCHES</th> <th colspan="2">MM</th> <th colspan="2">NOTE</th>	DIM	INCHES		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	Biiii	MIN	MAX	MIN	MAX	11012	
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	Α	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

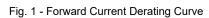
Recommended Mounting Torque: 0.5 N•m

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;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		40		pF



Curve Characteristics



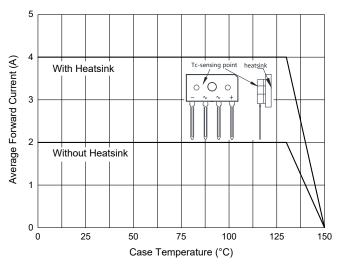


Fig. 3 - Typical Forward Characteristics

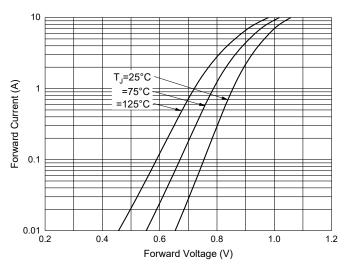
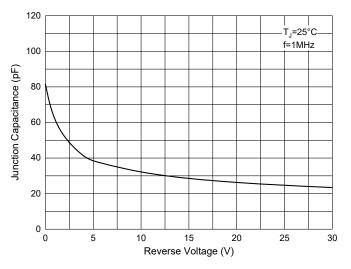


Fig. 5 - Typical Capacitance Characteristics



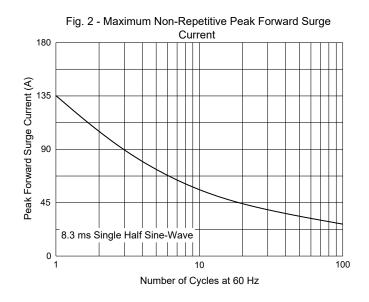
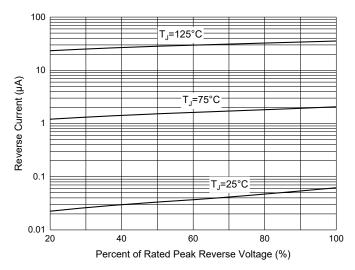


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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