

	E502650
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Features

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

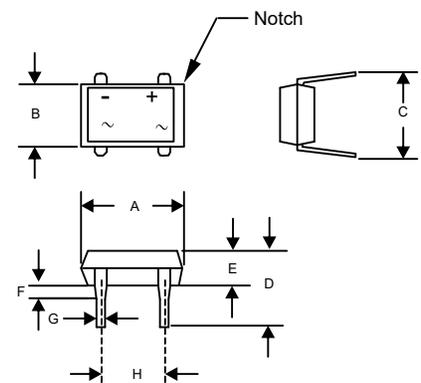
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 40°C/W Junction To Ambient
- Typical Thermal Resistance: 15°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DB151	DB151	50V	35V	50V
DB152	DB152	100V	70V	100V
DB153	DB153	200V	140V	200V
DB154	DB154	400V	280V	400V
DB155	DB155	600V	420V	600V
DB156	DB156	800V	560V	800V
DB157	DB157	1000V	700V	1000V

1.5 Amp Single Phase Bridge Rectifier 50 - 1000 Volt

DB-1



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.5 A	$T_{c} = 40^{\circ}C$
Peak Forward Surge Current	I_{FSM}	10 A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.7V	$I_{FM} = 1.5 A$; $T_{c} = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 100 μA	$T_{c} = 25^{\circ}C$ $T_{c} = 125^{\circ}C$
Reverse Recovery Time	t_{RR}	25pF	Measured at 1.0MHz, $V_U = 4.0V$
I ² t Rating For Fusing	I ² t	100 A ² S	(1ms < t < 8.3ms)

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.

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.316	0.335	8.05	8.51	
B	0.245	0.255	6.20	6.50	
C	0.300	0.350	7.60	8.90	
D	0.236	0.299	6.01	7.60	
E	0.102	0.130	2.60	3.30	
F	0.060		1.50		Typ
G	0.016	0.022	0.41	0.56	Typ
H	0.195	0.205	5.00	5.20	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

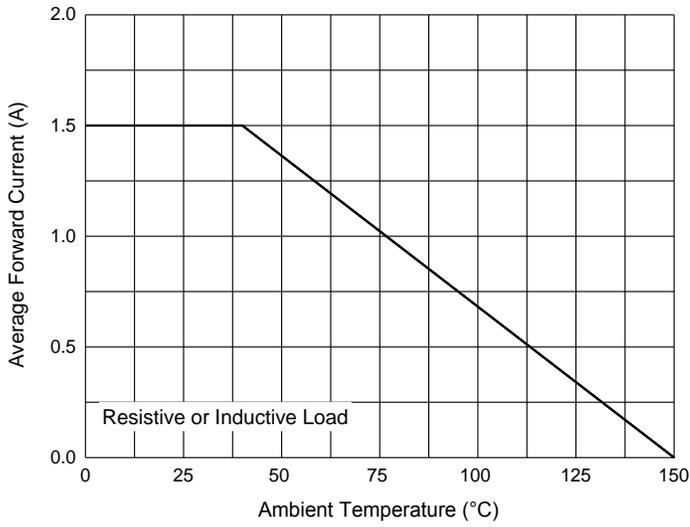


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

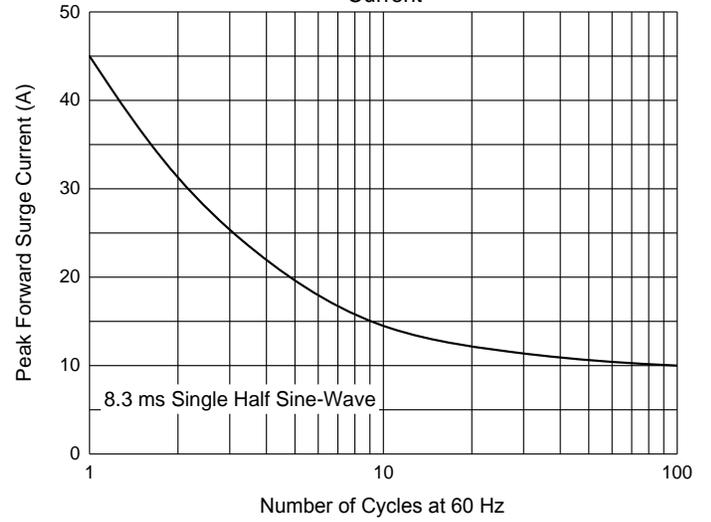


Fig. 3 - Typical Instantaneous Forward Characteristics

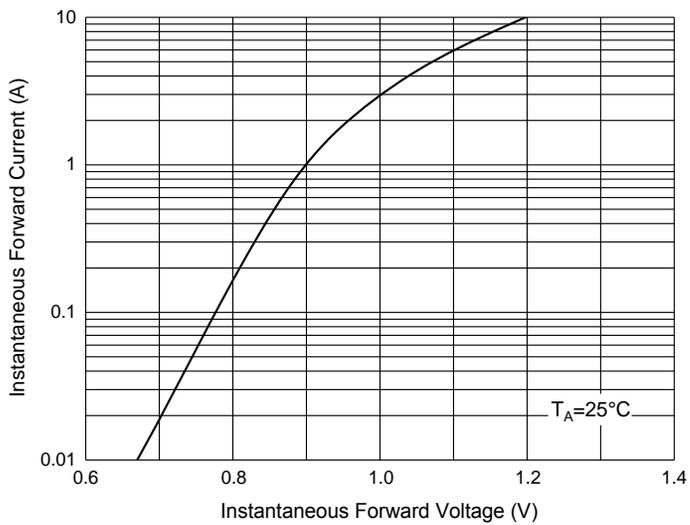
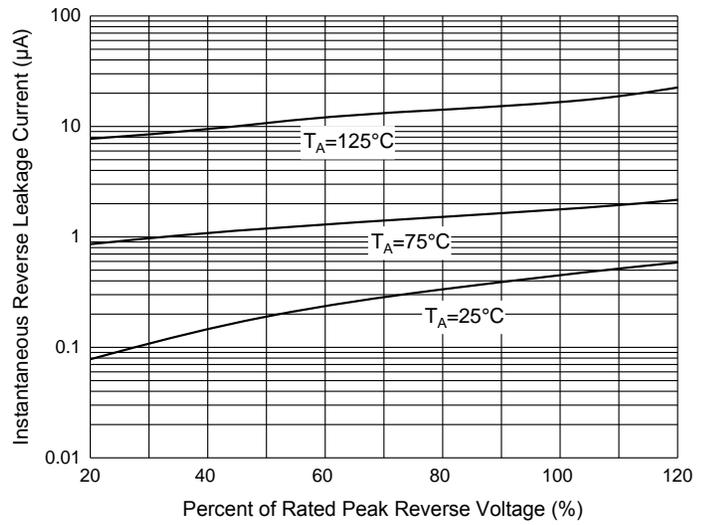


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:50pcs/Tube,2500pcs/Box,10Kpcs/Carton

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