

Features

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

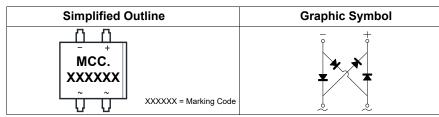
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value							
		DB 101L	DB 102L	DB 103L	DB 104L	DB 105L	DB 106L	DB 107L	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{R}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ $T_A=40^{\circ}C$	I _{F(AV)}	1					A		
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	30						A	
Non-Repetitive Peak Surge Current @ 1ms Square Wave	'FSM	60							
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735					A ² s		

Marking Code

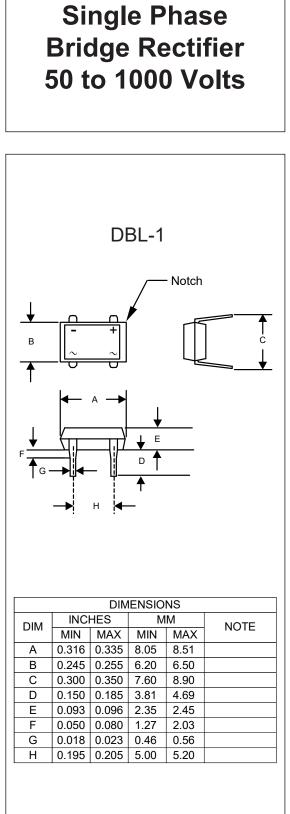
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Part Number	Marking Code
DB101L	DB101L
DB102L	DB102L
DB103L	DB103L
DB104L	DB104L
DB105L	DB105L
DB106L	DB106L
DB107L	DB107L

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.



1 Amp



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-L)	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		40		°C/W

Note:

1.Device mounted on P.C.B with 35mm*25mm*1.7mm.

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =0.5A;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	μA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		12		pF



Curve Characteristics

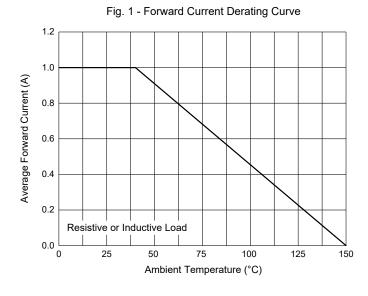
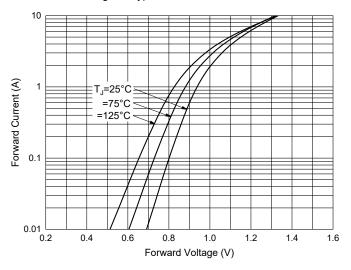
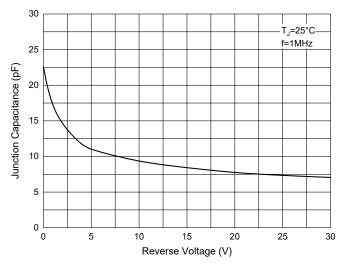


Fig. 3 - Typical Forward Characteristics







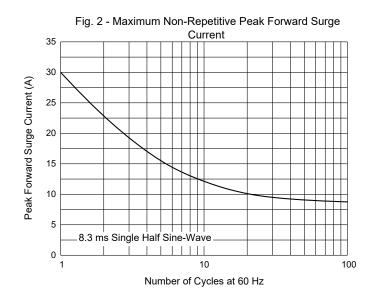
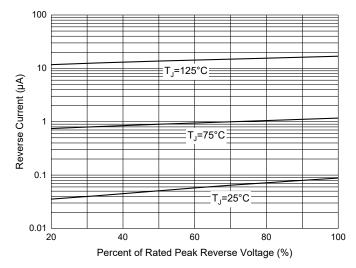


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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