

### Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- 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)

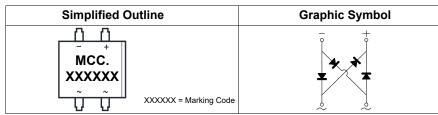
### Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value							
		DB 201L	DB 202L	DB 203L	DB 204L	DB 205L	DB 206L	DB 207L	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 <sub>RMS</sub>	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ $T_A=40^{\circ}C$	I <sub>F(AV)</sub>	2					A		
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	60						A	
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I <sub>FSM</sub>	120							
Current Squared Time @1ms≤t≤8.3ms	l <sup>2</sup> t	15					A²s		

# Marking Code

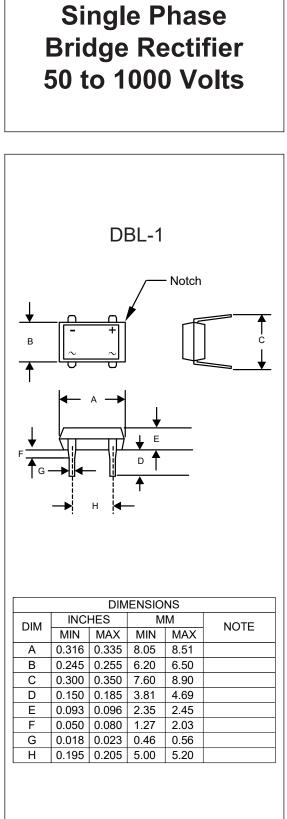
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Part Number	Marking Code
DB201L	DB201L
DB202L	DB202L
DB203L	DB203L
DB204L	DB204L
DB205L	DB205L
DB206L	DB206L
DB207L	DB207L

#### **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.



2 Amp



# Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T <sub>stg</sub>	Storage Temperature Range		-55		150	°C
Rth <sub>(J-L)</sub>	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth <sub>(J-A)</sub>	Thermal Resistance from Junction to Ambient	Note 1		45		°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 <sub>F</sub>	I <sub>F</sub> =1A;T <sub>J</sub> =25°C			1.1	V
Reverse Current	I <sub>R</sub>	at Rated V <sub>R</sub> ;T <sub>J</sub> =25°C at Rated V <sub>R</sub> ;T <sub>J</sub> =125°C			10 100	μA
Junction Capacitance	CJ	V <sub>R</sub> =4V;f=1MHz;T <sub>J</sub> =25°C		18		pF



# **Curve Characteristics**

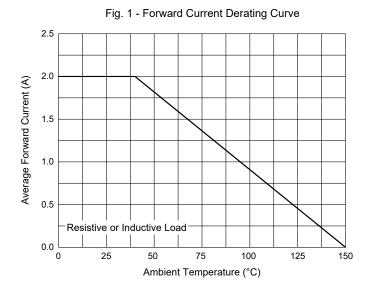
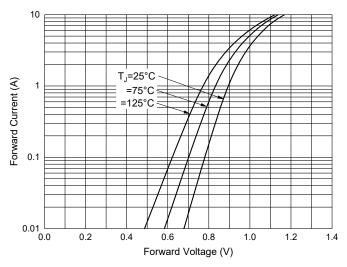
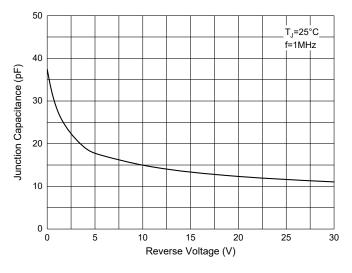


Fig. 3 - Typical Forward Characteristics







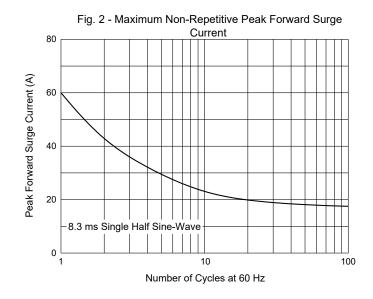
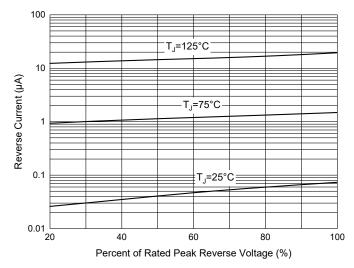


Fig. 4 - Typical Reverse Leakage Characteristics





### **Ordering Information**

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

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