

1.5 Amp

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)

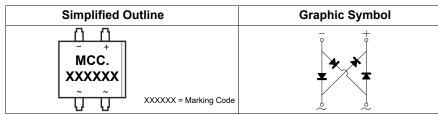
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value							
		DB 151L	DB 152L	DB 153L	DB 154L	DB 155L	DB 156L	DB 157L	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	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)}	1.5				A			
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I	45						А	
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	90							
Current Squared Time @1ms≤t≤8.3ms	l ² t	8.4					A²s		

Marking Code

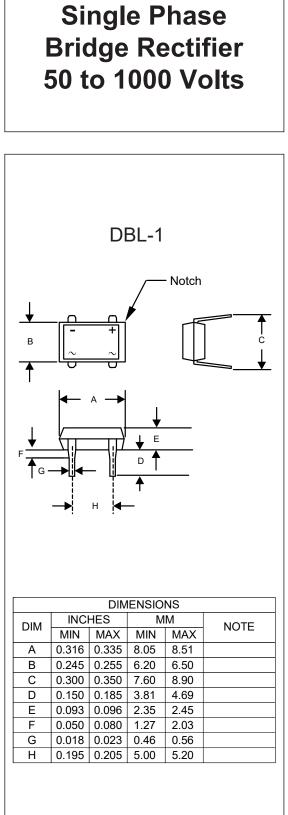
-	
Part Number	Marking Code
DB151L	DB151L
DB152L	DB152L
DB153L	DB153L
DB154L	DB154L
DB155L	DB155L
DB156L	DB156L
DB157L	DB157L

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-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 =0.7A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			10 100	μA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		18		pF



Curve Characteristics

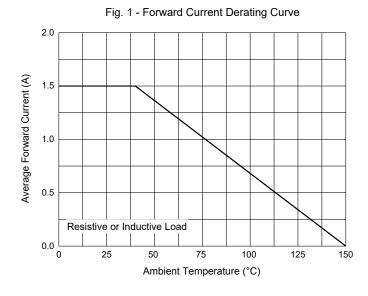
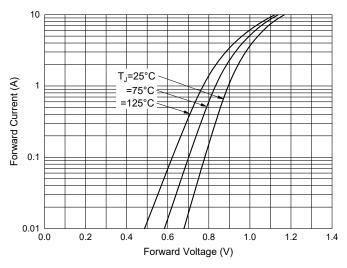
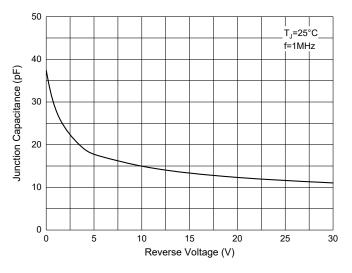


Fig. 3 - Typical Forward Characteristics







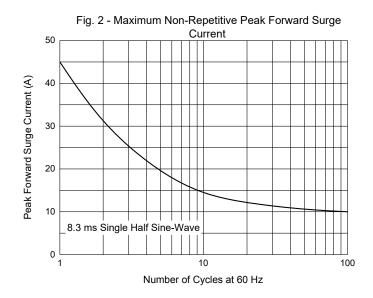
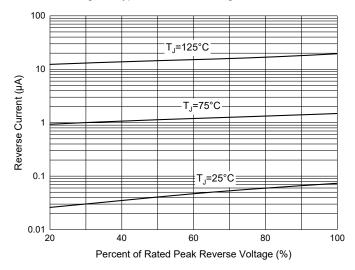


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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