



## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

DB151 THRU DB157

VOLTAGE RANGE 50 to 1000 Volts  
CURRENT 1.5 Ampere

### Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- 4- pin DIP Package and Low Profile Package
- UL Recognized File # E165989
- High Surge Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance : Rthja:40°C/W; RthJL:15°C/W

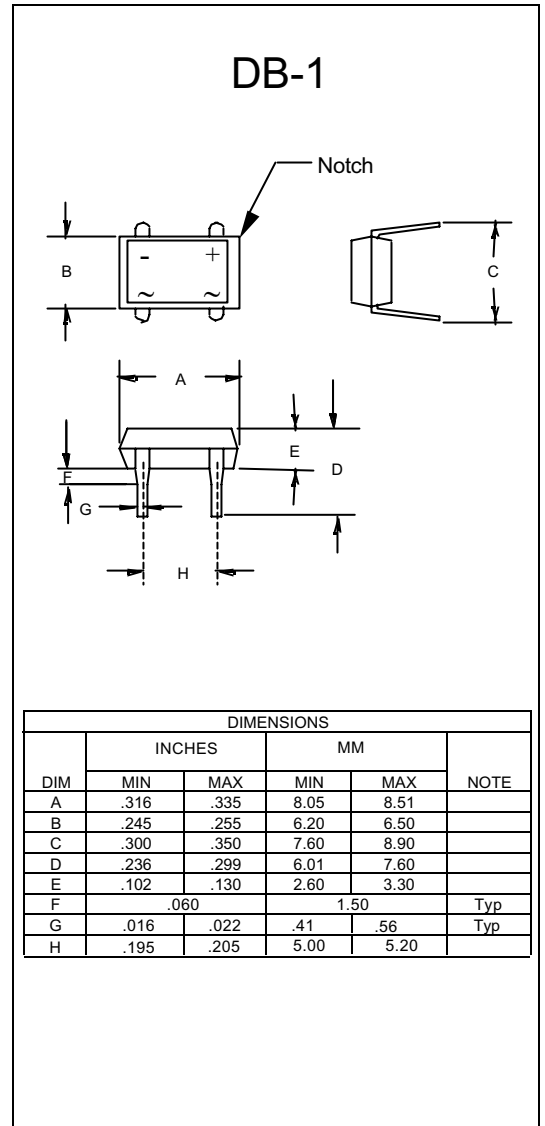
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DB151	DB151	50V	35V	50V
DB152	DB152	100V	70V	100V
DB153	DB153	200V	140V	200V
DB154	DB154	400V	280V	400V
DB155	DB155	600V	420V	600V
DB156	DB156	800V	560V	800V
DB157	DB157	1000V	700V	1000V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.5 A	$T_A = 40^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	$I_{FM} = 1.5\text{A}(\text{Note } 2)$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10 $\mu\text{A}$ 500 $\mu\text{A}$	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	25pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

2.Pulse Test: Pulse Width 300 $\mu\text{sec}$ , Duty Cycle 1%





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Figure 1  
Typical Forward Characteristics

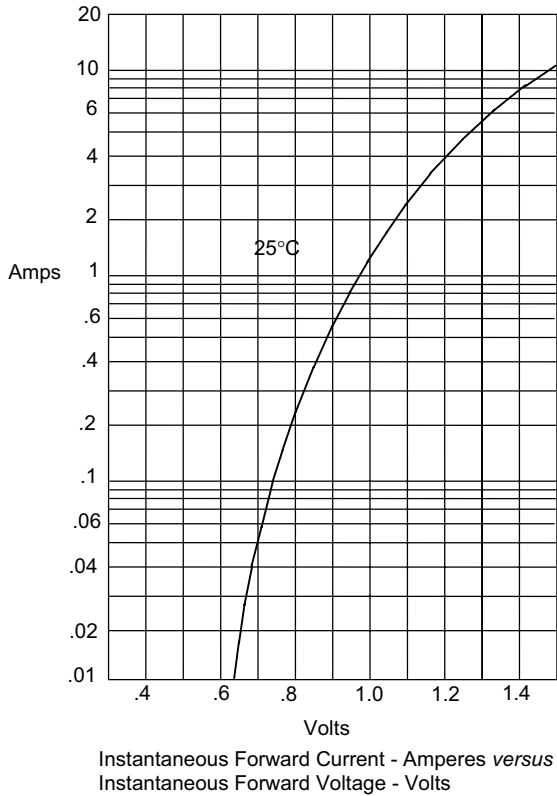


Figure 2  
Typical Reverse Characteristics

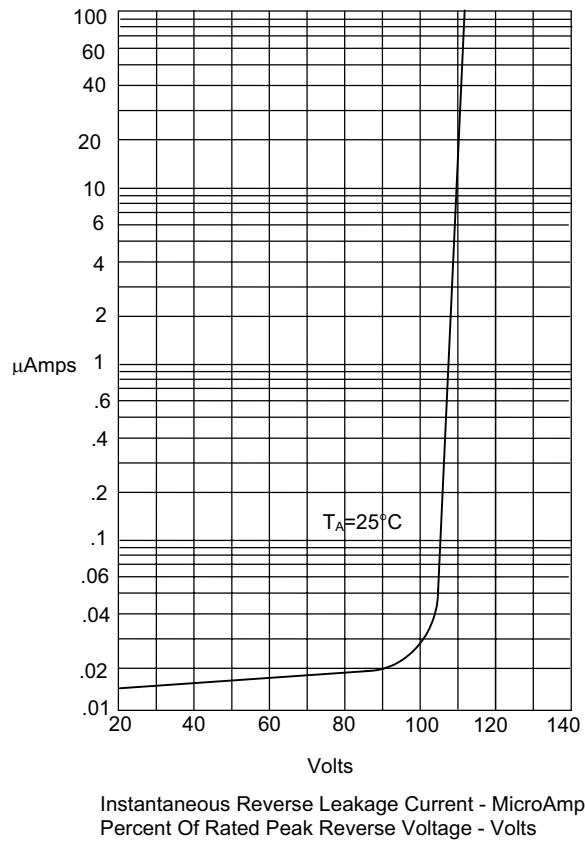


Figure 3  
Forward Derating Curve

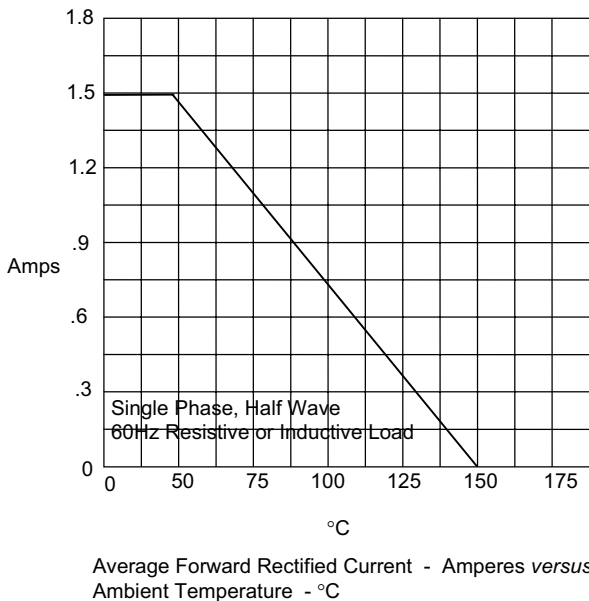


Figure 4  
Peak Forward Surge Current

