

M·C·C

Micro Commercial Components



Micro Commercial Components
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**DB101
THRU
DB107**

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- 4-PIN DIP Package
- Glass Passivated Diode Construction
- UL Recognized File # E165989
- High Surge Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

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

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DB101	DB101	50V	35V	50V
DB102	DB102	100V	70V	100V
DB103	DB103	200V	140V	200V
DB104	DB104	400V	280V	400V
DB105	DB105	600V	420V	600V
DB106	DB106	800V	560V	800V
DB107	DB107	1000V	700V	1000V

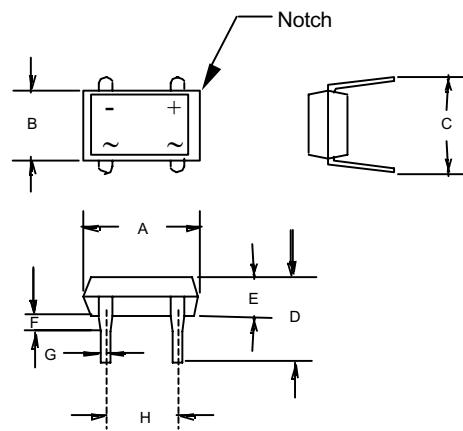
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1 A	$T_A = 40^\circ C$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM} = 1.0A$; $T_J = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$10\mu A$ $0.5mA$	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Typical Junction Capacitance	C_J	25pF	Measured at 1.0MHz, $V_R=4.0V$

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

**1 Amp Single Phase
Glass Passivated
Bridge Rectifier
50 to 1000 Volts**

DB-1



DIMENSIONS					NOTE	
DIM	INCHES		MM			
	MIN	MAX	MIN	MAX		
A	.316	.335	8.05	8.51		
B	.245	.255	6.20	6.50		
C	.300	.350	7.60	8.90		
D	.236	.299	6.01	7.60		
E	.102	.130	2.60	3.30		
F	.060		1.50		Typ	
G	.016	.022	.41	.56	Typ	
H	.195	.205	5.00	5.20		

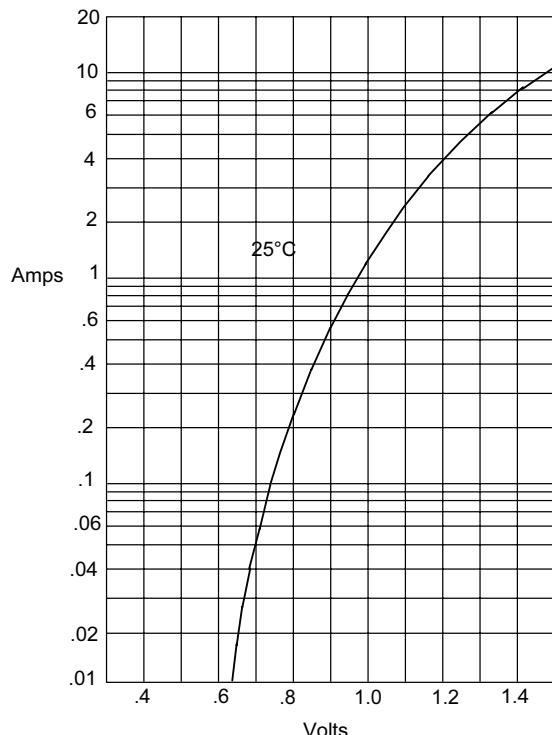
www.mccsemi.com

DB101 thru DB107

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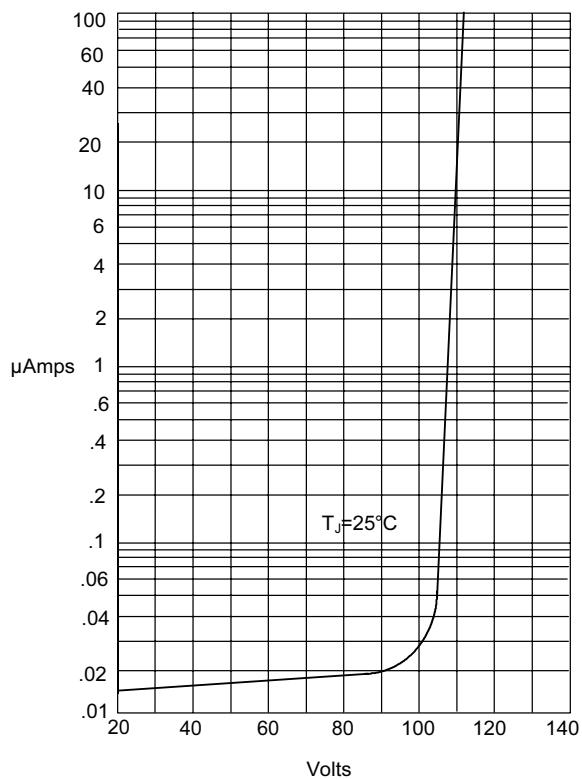
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Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



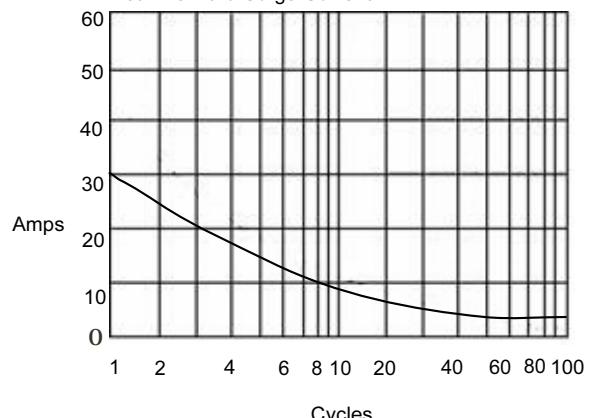
Instantaneous Reverse Leakage Current - MicroAmperesversus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Ambiente Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus
Number Of Cycles At 60Hz - Cycles

Ordering Information :

Device	Packing
Part Number-BP	Bulk: 2.5Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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