

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DB101 THRU DB107

- 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.

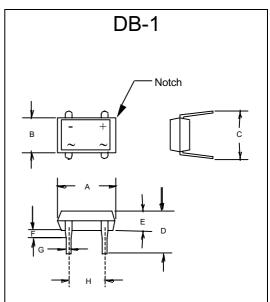
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
DB101	DB101	50V	35V	50V
DB102	DB102	100V	70V	100V
DB103	DB103	200V	140V	200V
DB104	DB104	400V	280V	400V
DB105	DB105	600V	420V	600V
DB106	DB106	800V	560V	800V
DB107	DB107	1000V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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1 A	T _A = 40°C
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current Maximum			
Instantaneous Forward Voltage	V_{F}	1.1V	I _{FM} = 1.0A; T _{.I} = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 0.5mA	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	CJ	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

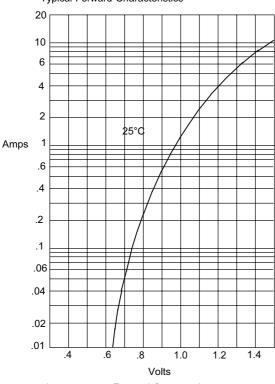


DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.316	.335	8.05	8.51	
В	.245	.255	6.20	6.50	
С	.300	.350	7.60	8.90	
D	.236	.299	6.01	7.60	
Е	.102	.130	2.60	3.30	
F	.060		1.50		Тур
G	.016	.022	.41	.56	Тур
Н	.195	.205	5.00	5.20	



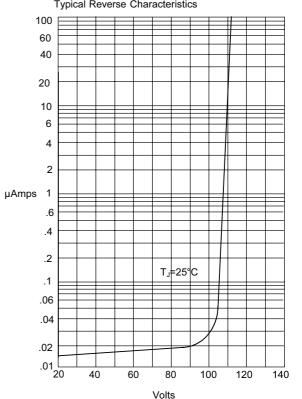
DB101 thru DB107

Figure 1
Typical Forward Characteristics

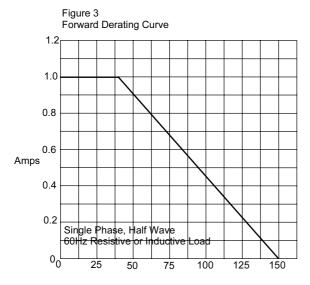


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

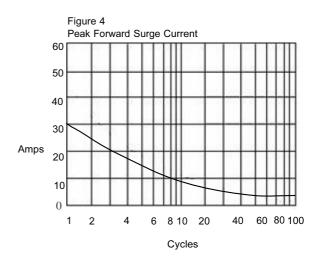
Figure 2 Micro Commercial Components Typical Reverse Characteristics



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



Average Forward Rectified Current - Ambient Temperature - qC



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

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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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