

**Micro Commercial Components** 

4-PIN DIP Package

**Features** 

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# **DB101 THRU DB107**

# 1 Amp Single Phase **Glass Passivated Bridge Rectifier**

# 50 to 1000 Volts

## **Maximum Ratings**

Operating Junction Temperature: -55°C to +150°C

Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and Rating 1

Storage Temperature: -55°C to +150°C

RoHS Compliant. See ordering information)

Glass Passivated Diode Construction

UL Recognized File # E165989 High Surge Current Capability

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

Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates

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

Average Forward Current	$I_{F(AV)}$	1 A	T <sub>A</sub> = 40°C
Peak Forward Surge Current	I <sub>FSM</sub>	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.1V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μA 0.5mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Typical Junction Capacitance	С	25pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

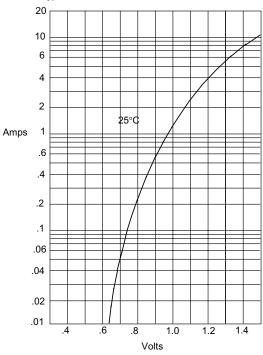
DB-1		
B - +	Notch	
A E	D	

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	
E	.102	.130	2.60	3.30	
F	.00	30	1.	50	Тур
G	.016	.022	.41	.56	Тур
Н	.195	.205	5.00	5.20	



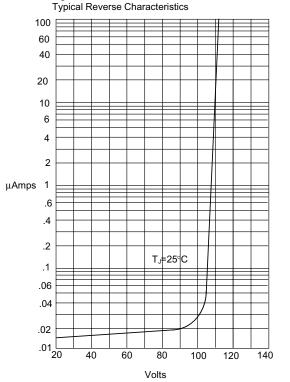
## **DB101 thru DB107**

Figure 1
Typical Forward Characteristics

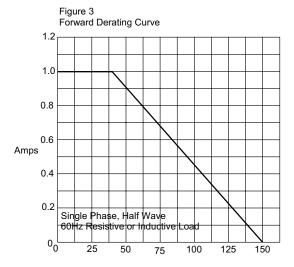


Instantaneous Forward Current - Amperes/ersus Instantaneous Forward Voltage - Volts

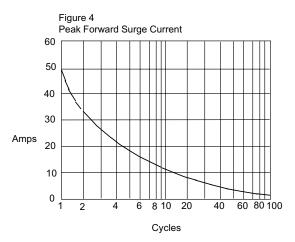
## Figure 2 Micro Commercial Components



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



Average Forward Rectified Current - Ambient Temperature - C



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



#### **Ordering Information**

Device	Packing
(Part Number)-BP	Bulk;50pcs/tube

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