



## **DB101 thru DB107**





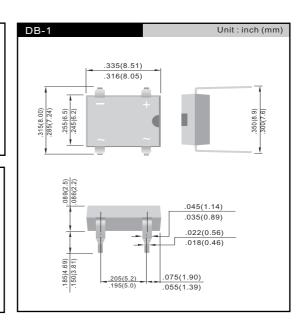
1.0 AMP.DIP GLASS PASSIVATED BRIDGE RECTIFIERS

## **Features**

- · Glass passivated chip junction
- · Low forward voltage drop
- High surge overload rating of 50 A peak
- · Ideal for printed circuit board

## **Mechanical Data**

- · Case: Molded plastic, DB
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any



## **Absolute Maximum Ratings and Characteristics**

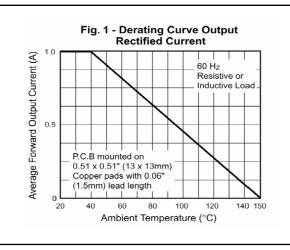
Ratings at 25  $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter		Symbols	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Units
Maximum Recurrent Peak Reverse Voltage		$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		$V_{RMS}$	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage		$V_{DC}$	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at T <sub>A</sub> = 40 °C		I <sub>(AV)</sub>	1							Α
Peak Forward Surge Current 8.3 ms Single Half-sine-wave Superimposed on Rated Load (JEDEC Method)		I <sub>FSM</sub>	50						Α	
Maximum Forward Voltage at 1 A		$V_{F}$	1.1						٧	
Maximum Reverse Current at Rated DC Blocking Voltage	at T <sub>A</sub> = 25 °C at T <sub>A</sub> = 125 °C	- I <sub>R</sub>	5 500				μA			
Typical Junction Capacitance 1)		CJ	25						pF	
Typical Thermal Resistance 2)		$R_{\theta JA}$	40						°C/W	
Typical Thermal Resistance 2)		$R_{\theta JL}$	15						°C/W	
Operating and Storage Temperature Range		T <sub>J</sub> ,T <sub>S</sub>	-55 to +150						°С	

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V

<sup>&</sup>lt;sup>2)</sup>Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5 X 0.5" (13 X 13 mm) copper pads.





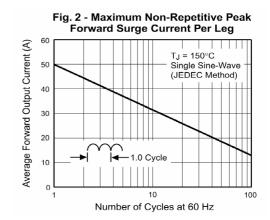


Fig. 3 - Typical Forward Characteristics

Per Leg

10

10

TJ = 25°C
Pulse width = 300µs
1% Duty Cycle
1% Duty Cycle
1,4 Instantaneous Forward Voltage (V)

