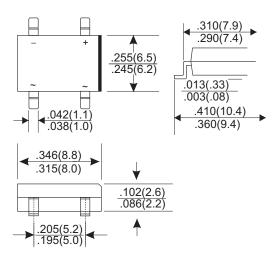


# **DB101S** THRU **DB107S**

## SINGLE PHASE BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

#### **DB-1S**



Dimensions in inches and (millimeters)

### **FEATURES**

- \* Glass Passivated Die Construction
- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current									
.375"(9.5mm) Lead Length at Ta=75°C			1.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)			30						
Maximum Instantaneous Forward Voltage at 1.0A			1.1						
Maximum DC Reverse Current	Ta=25°C				10				μΑ
at Rated DC Blocking Voltage	Ta=100℃				500				μΑ
Typical Junction Capacitance (Note 1)			25						
Typical Thermal Resistance RθJA (Note 2)			40						
Operating and Storage Temperature Range TJ, Tstc			-65—+150						

#### NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient mounted on PC board with 13mm<sup>2</sup> copper pad

# RATING AND CHARACTERISTIC CURVES (DB101S THRU DB107)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

1.2
1.0
0.8
0.6
Single Phase Half Wave 60Hz Resistive Or Inductive Load

75

100

AMBIENT TEMPERATURE (℃)

150

AVERAGE FORWARD CURRENT,(A)

0.2

0

