

DB101G THRU DB107G

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers

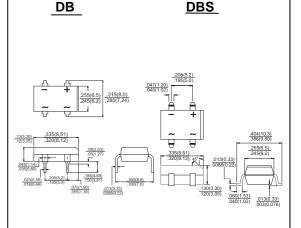




Voltage Range 50 to 1000 Volts Current 1.0 Ampere

Features

- ♦ UL Recognized File # E-96005
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- ✦ High temperature soldering guaranteed: 250°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- Small size, simple installation Leads solderable per MIL-STD-202, Method 208
- → High surge current capability



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	DB101G					DB106G		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DBS 101G	DBS 102G	DBS 103G	DBS 104G	DBS 105G	DBS 106G	DBS 107G	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 $@T_A = 40^{\circ}C$	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50							Α
Maximum Instantaneous Forward Voltage @ 1.0A	1.1							V
Maximum DC Reverse Current @ T _A =25°C	10							uA
at Rated DC Blocking Voltage @ T _A =125°C				500				uA
Typical Thermal resistance (Note 1) R&JA	40							℃/W
$R\theta$ JL	15							
Operating Temperature Range T _J	-55 to +150							${\mathbb C}$
Storage Temperature Range T _{STG}	-55 to +150							Ç

Note: 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted On P.C.B. with 0.47 x 0.47" (12 x 12mm) Copper Pads.

2. DBS for Surface Mount Package.



RATINGS AND CHARACTERISTIC CURVES (DB101G THRU DB107G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT * AVERAGE FORWARD CURRENT. (A) Copper Pauls .51" x .51" (13mm x 13mn 0.5 60Hz RESISTIVE OR INDUCTIVE LOAD 40 100 120 140 AMBIENT TEMPERATURE. (°C)

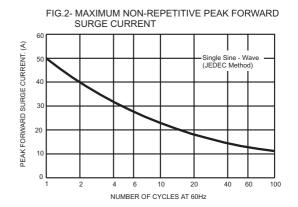
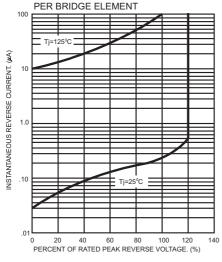


FIG.3- TYPICAL REVERSE CHARACTERISTICS



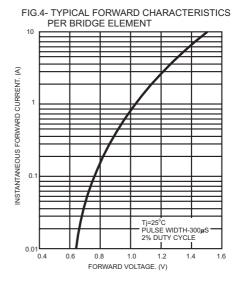


FIG.5- TYPICAL JUNCTION CAPACITANCE PER **BRIDGE ELEMENT**

