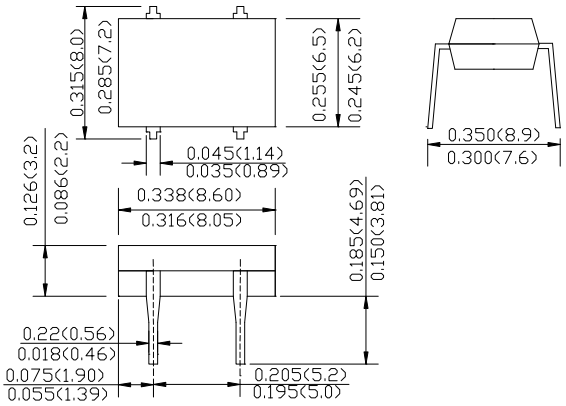
Central Plate
Electronics Co., Ltd.

SINGLE-PHASE GLASS BRIDGE
DB101 THRU DB107 SERIES 50 to 1000 V 1.0A

Features

- UL Recognized Component
- Ideal for Printed Circuit Board
- Glass Passivated Chip Junctions, Surge Overload Rating of 50A Peak
- Simple, Compact Structure for Trouble-free Performance
- Plastic Package - UL Flammability Classification 94V-0



Dimensions in inches and (millimeters)

Mechanical Data

- Terminals: Tin Plated Leads Solderable per MIL-STD-202, Method 208
- Case: Transfer Molded Epoxy
- Mounting Position: Any
- Polarity: Polarity Symbols Marked on Body
- Approx. Weight: 1.0 grams

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	DB 101	DB 102	DB 103	DB 104	DB 105	DB 106	DB 107	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current @ T_A = 40°C	$I_{(AV)}$	1.0							A
Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage drop per Element at I_F = 1.0A	V_F	1.1							V
Maximum Reverse DC Current at Rated @ T_A = 25°C DC Blocking Voltage per Element @ T_A = 100°C	I_R	10 1.0							μA mA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40							K/W
Storage and Operating Temperature Range	T_J, T_{STG}	-55 to +150							°C

Notes: 1. Thermal resistance from junction to ambient mounted on PC board with 13mm x 13mm copper pads.
2. 60 Hz resistive or inductive load.

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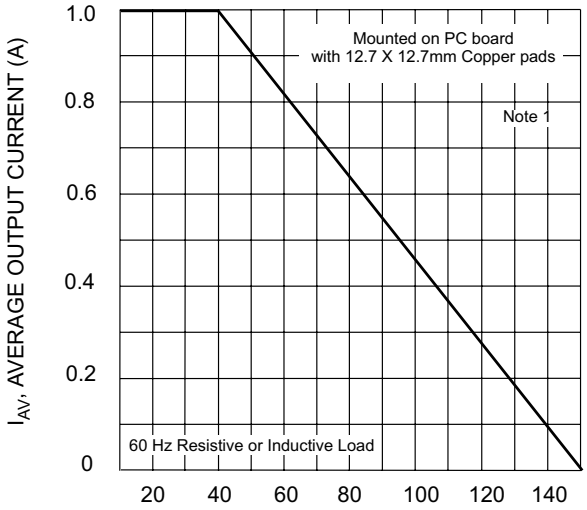

Fig. 1 Maximum Output Rectified Current

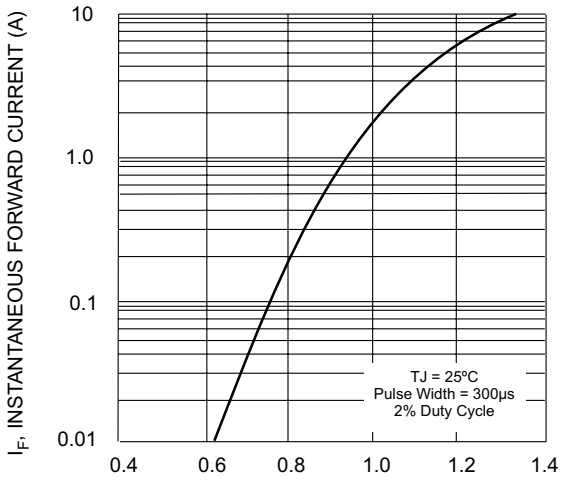

Fig. 2 Typical Forward Characteristics

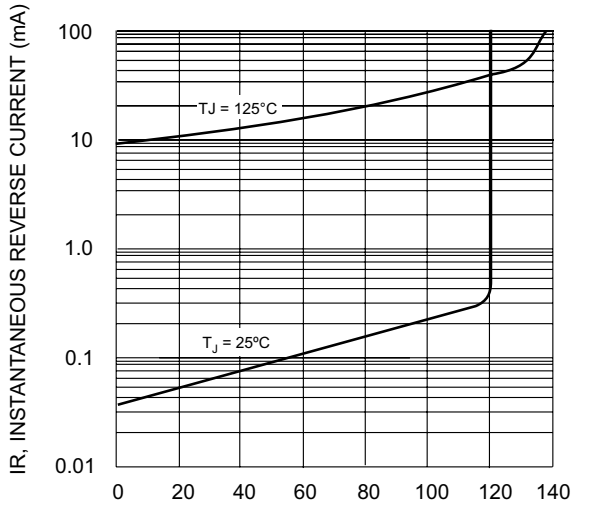

Fig. 3 Typical Reverse Characteristics

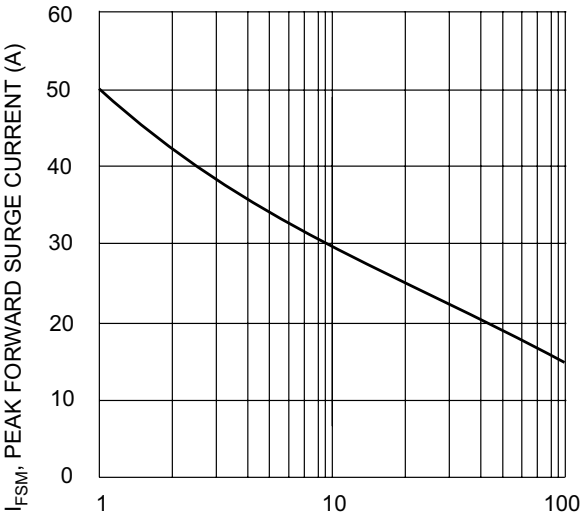

Fig. 4 Max Non-Repetitive Peak Forward Surge Current