



YEA SHIN TECHNOLOGY CO., LTD

DB101 THRU DB107

SINGLE PHASE 1.0 AMP BRIDGE RECTIFIERS
VOLTAGE- 50 to 1000 Volts CURRENT 1.0 Ampere
Glass passivated type



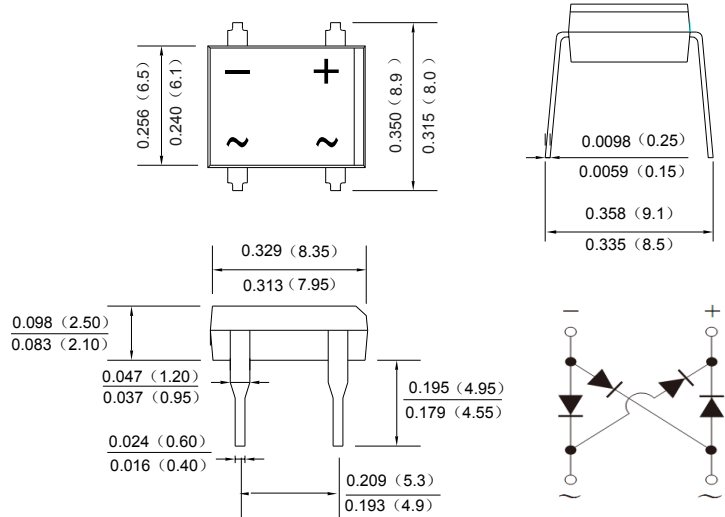
FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Polarity: marked on body
- Mounting position: Any
- High temperature soldering : 260 °C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

Mechanical data

- Case : Molded plastic, DF
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Marked on body
- Mounting Position : Any

DIP Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	DB101	DB102	DB103	DB104	DB105	DB106	DB107	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 Current at TA=40°C	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50							A
I ² t Rating for Fusing (t<8.3ms)	10.378							A ² s
Maximum Forward Voltage Drop per Bridge Element at 1.0A	1.1							V
Maximum DC Reverse Current Ta=25°C	10							uA
at Rated DC Blocking Voltage Ta=125°C	500							uA
Typical Junction Capacitance per leg (Note1)	25							pF
Typical Thermal Resistance per leg, R _{θJA}	40							°C/W
R _{θJL}	15							
Operating Temperature Range, T _J	-55 to + 150							
Storage Temperature Range, T _{STG}	-55 to + 150							

Note:1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

DEVICE CHARACTERISTICS

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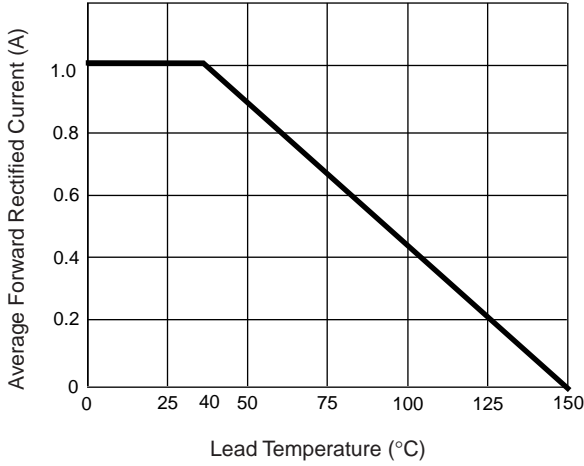


Fig. 1-FORWARD CURRENT DERATING CURVE

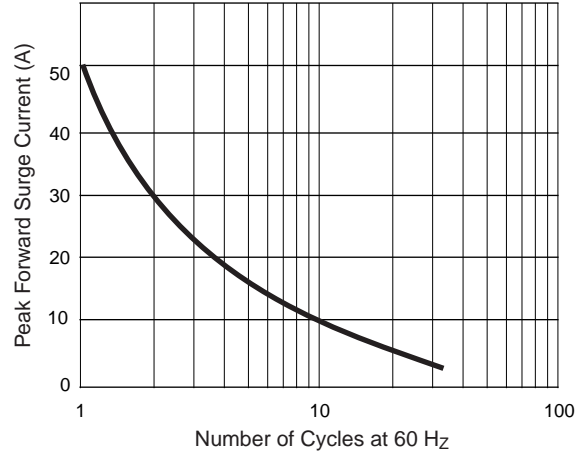


Fig. 2-PEAK FORWARD SURGE CURRENT

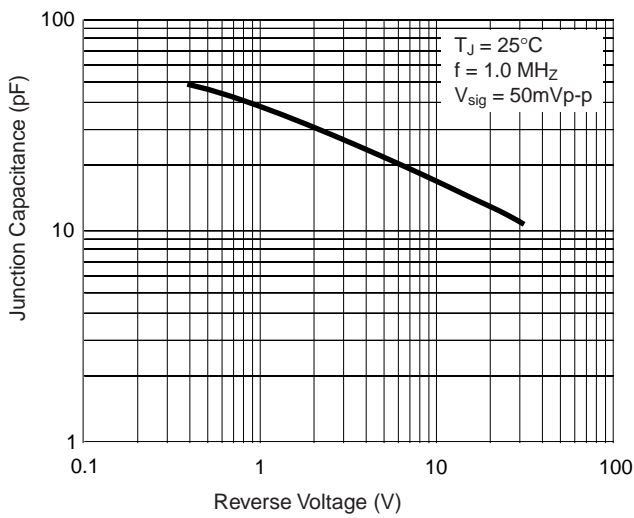


Fig.3-TYPICAL JUNCTION CAPACITANCE

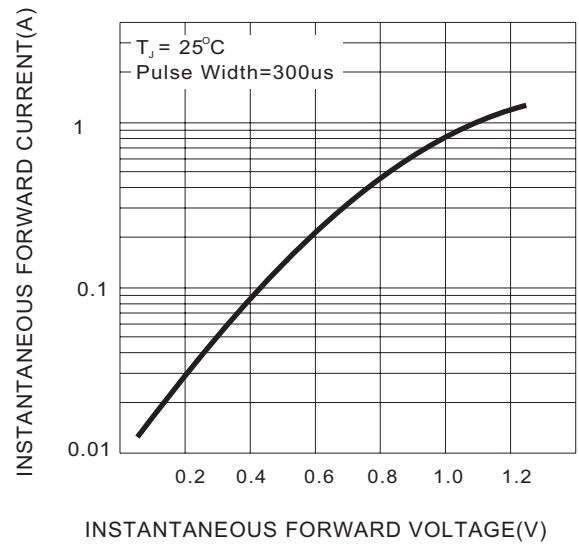


Fig. 4-FORWARD CHARACTERISTICS