



YEA SHIN TECHNOLOGY CO., LTD

DB101S THRU DB107S

SINGLE PHASE 1.0 AMP BRIDGE RECTIFIERS

VOLTAGE RANGE 50 to 1000 Volts

CURRENT 1.0 Ampere Glass passivated type

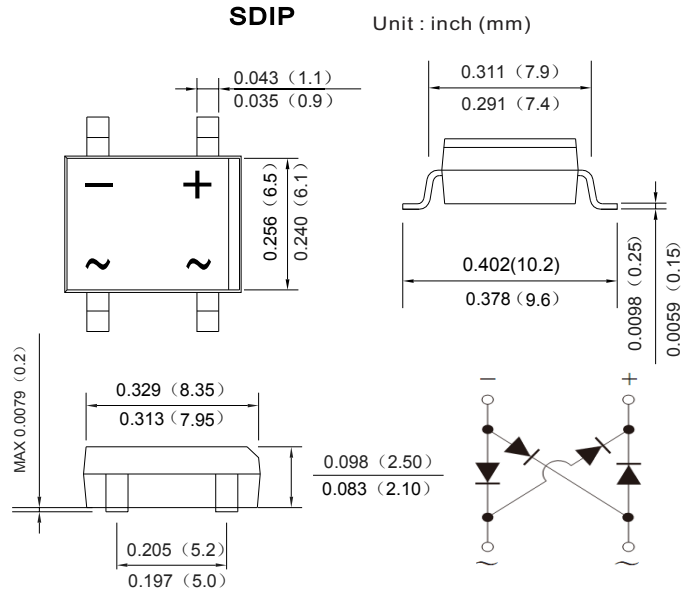


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Utilizing Flame Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of MIL-S-19500 /228
- High surge current capability
- Ideal for printed circuit board
- 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, DFS
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Marked on body
- Mounting Position : Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (At TA = 25 unless otherwise noted)

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 Current at TA=40°C	1							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 at Rated DC Blocking Voltage TA=125°C	10 500							uA
Operating Temperature Range, TJ	-55 to + 150							
Storage Temperature Range, TSTG	-55 to + 150							

DEVICE CHARACTERISTICS

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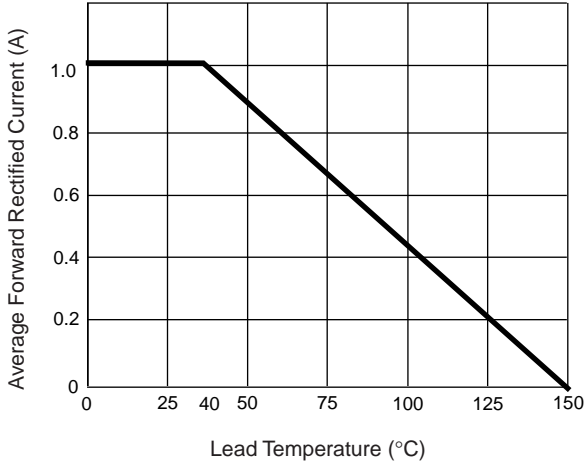


Fig. 1-FORWARD CURRENT DERATING CURVE

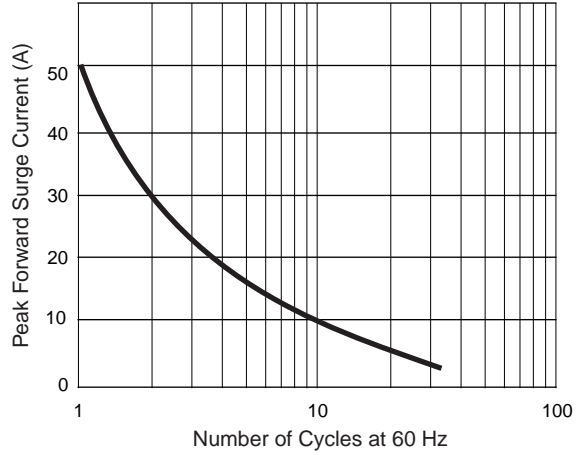


Fig. 2-PEAK FORWARD SURGE CURRENT

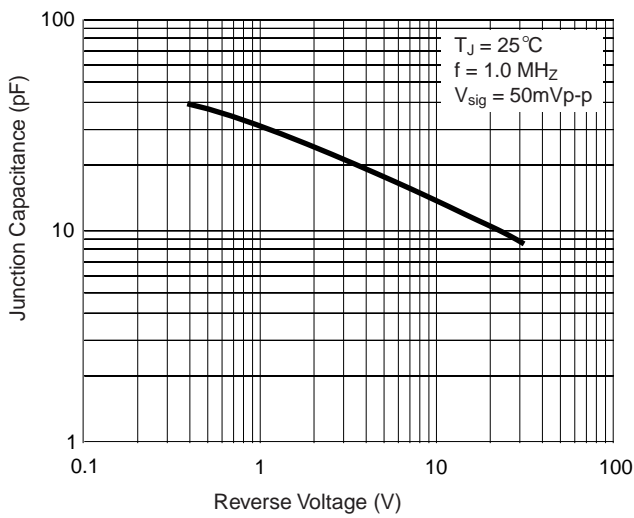


Fig.3-TYPICAL JUNCTION CAPACITANCE

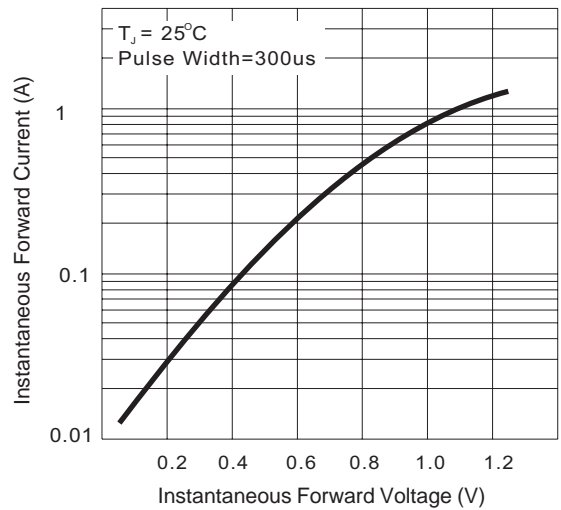


Fig. 4-FORWARD CHARACTERISTICS