GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIERS

Description:

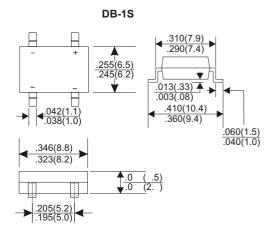
Suitable for AC-to-DC bridge full wave rectification for SMPS, LED lighting, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Features:

- Compact, thin profile package design
- Ideal for SMT manufacturing
- Reliable robust construction

Mechanical Data:

- Molding compound meets UL 94 V-0 flammability rating, Halogen-free, RoHS-compliant, and commercial grade
- Polarity indicator: As marked on body



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

| CHARACTERISTICS | | SYMBOL | DB101S | DB102S | DB103S | DB104S | DB105S | DB106S | DB107S | UNIT |
|---|-----------------------|----------------------|---------------|--------|--------|--------|--------|--------|--------|------------------|
| Maximum Recurrent Peak Reverse Voltage | | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @Tc =120℃ | | I(AV) | 1 | | | | | | | Α |
| Peak Forward Surge Current single half sine-wave | @ 8.3ms @ 1.0ms | IFSM | 50 100 | | | | | | Α | |
| Maximum Forward Voltage @ TJ = 25℃ | @ 1.0A DC @ 1.5ADC | VF | 1.02 1.10 | | | | | ٧ | | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | @TJ=25℃ @TJ=125℃ | lr | 5 500 | | | | | | μA | |
| Typical junction Capacitance per element (Note 1) | | Сл | 35 | | | | | | | pF |
| I^2t Rating for fusing (1ms < t < 8.3ms) | | l ² t | 23.3 | | | | | | | l ² t |
| Typical Thermal Capacitance (Note 2) | | Rejc Rejl Reja | 8 15 25 | | | | | | | °C/W |
| Operating Temperature Range | | TJ | -55 to +150 | | | | | | | $^{\circ}$ |
| Storage Temperature Range | | Тѕтс | -55 to +150 | | | | | | | $^{\circ}$ |

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- 2. Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 15 mm*12 mm*1.6 mm AL pad attach 195 mm*110 mm*10 mm steel plate
- 3. The typical data above is for reference only.

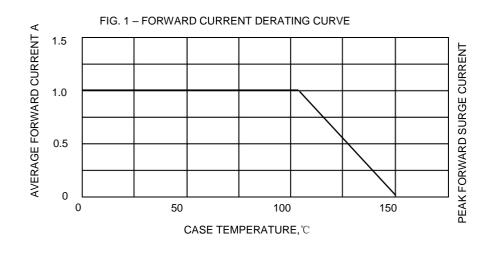
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DB101S THRU DB107S

RATING AND CHARACTERISTIC CURVES



6.0**PULSE WIDTH**

FIG. 2 - MAXIMUM NON-

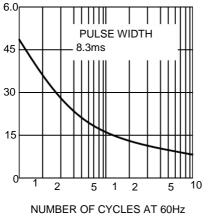


FIG.3-TYPICAL FORWARD

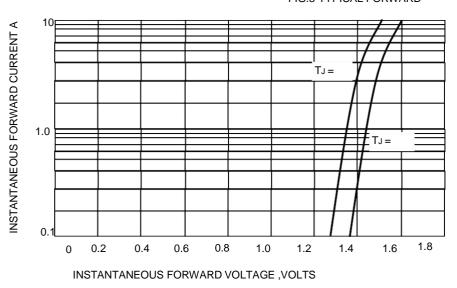


FIG.4 – TYPICAL JUNCTION CAPACITANC

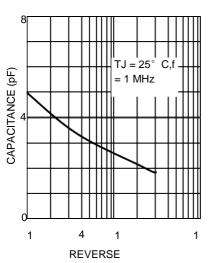
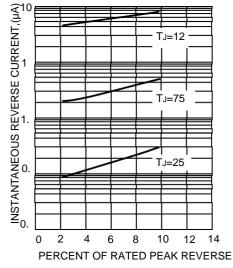


FIG.5- TYPICAL REVERSE



The cruve graph is for reference only, can't be the basis for judgment

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