



**YEA SHIN TECHNOLOGY CO., LTD**

**DB201S THRU DB207S**

**SINGLE PHASE 2.0 AMP BRIDGE RECTIFIERS**  
**VOLTAGE RANGE 50 to 1000 Volts**  
**CURRENT 2.0 Ampere Glass passivated type**

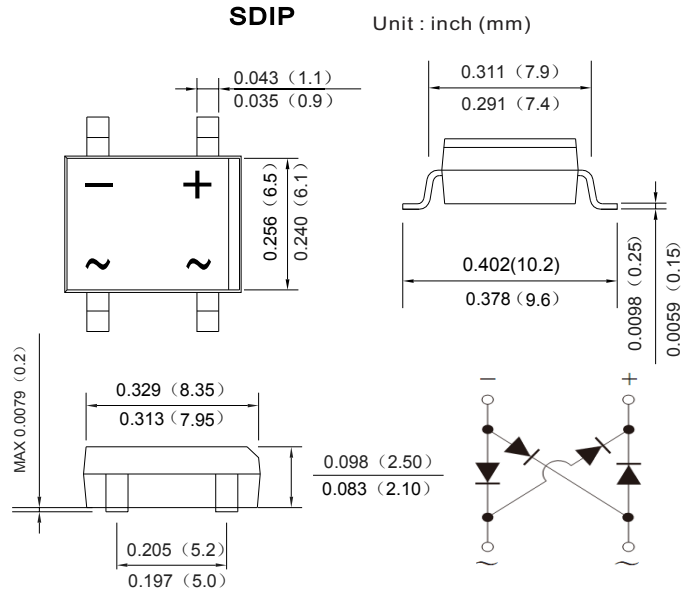


**FEATURES**

- 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**

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

**MAXIMUM RATINGS (At TA = 25 unless otherwise noted)**

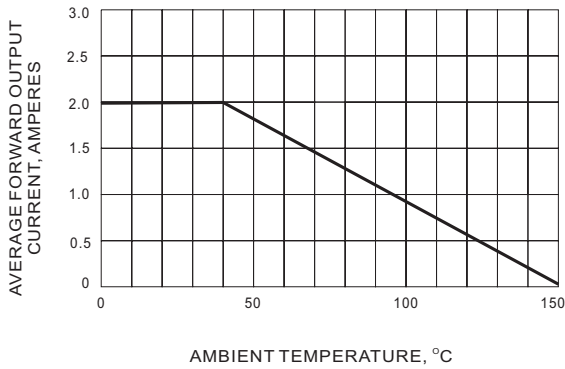
| RATINGS   | SYMBOL  | DB201S       | DB202S | DB203S | DB204S | DB205S | DB206S | DB207S | UNITS |
|---|---------|--------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage  | VRRM    | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum RMS Bridge Input Voltage  | VRMS    | 35           | 70     | 140    | 280    | 420    | 560    | 700    | Volts |
| Maximum DC Blocking Voltage   | VDC     | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum Average Forward Output Current at TA = 40   | IO      | 2.0          |        |        |        |        |        |        | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM    | 60           |        |        |        |        |        |        | Amps  |
| Typical thermal resistance  | R JA    | 40           |        |        |        |        |        |        | /W    |
|   | R JL    | 15           |        |        |        |        |        |        |       |
| Operating and Storage Temperature Range   | TJ,TSTG | -55 to + 150 |        |        |        |        |        |        |       |

**ELECTRICAL CHARACTERISTICS (At TA = 25 unless otherwise noted)**

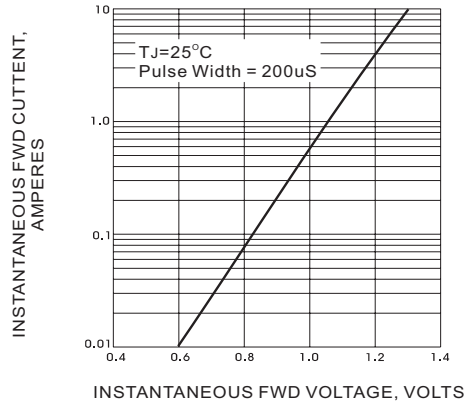
| CHARACTERISTICS   | SYMBOL    | DB201S | DB202S | DB203S | DB204S | DB205S | DB206S | DB207S | UNITS |
|---|-----------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Forward Voltage Drop per Bridge Element at 2.0A DC    | VF        | 1.1    |        |        |        |        |        |        | Volts |
| Maximum DC Reverse Current at DC Blocking Voltage per Element | @TA = 25  | 5.0    |        |        |        |        |        |        | uAmps |
|   | @TA = 125 | 0.5    |        |        |        |        |        |        | uAmps |

# DEVICE CHARACTERISTICS

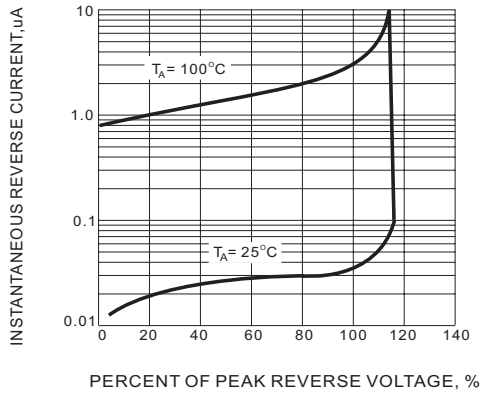
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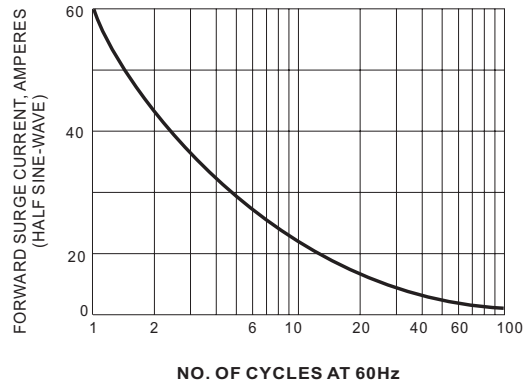
**FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 TYPICAL FORWARD CHARACTERISTICS**



**FIG.3 TYPICAL REVERSE CHARACTERISTICS**



**FIG.4 MAX NON-REPETITIVE SURGE CURRENT**