



Taiwan Goodark Technology Co.,Ltd

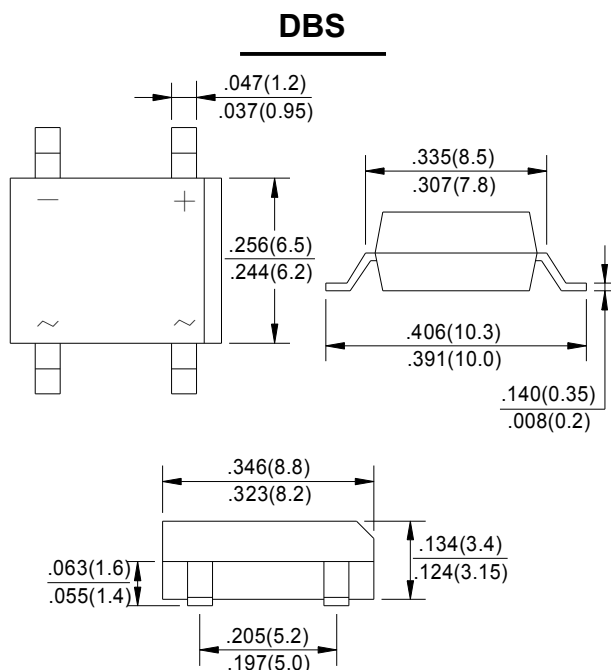
DB151GS THRU DB157GS

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity: As marked on body
- Weight: 0.02 ounces, 0.38 gras
- Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | DB 151GS | DB 152GS | DB 153GS | DB 154GS | DB 155GS | DB 156GS | DB 157GS | 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 @TA=40°C | I(AV) | 1.5 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | IFSM | 50 | | | | | | | A |
| Maximum Forward Voltage at 1.5A DC | VF | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C | IR | 10 500 | | | | | | | uA |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | 10.4 | | | | | | | A ² s |
| Typical Junction Capacitance Per Element (Note1) | CJ | 25 | | | | | | | pF |
| Typical Thermal Resistance (Note2) | RθJA | 40 | | | | | | | °C/W |
| Operating Temperature Range | TJ | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | TSTG | -55 to +150 | | | | | | | °C |

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

2. Thermal resistance from junction to ambient mounted on P.C.B
with 0.5*0.5"(13*13mm) copper pads.



FIG.1-FORWARD CURRENT DERATING CURVE

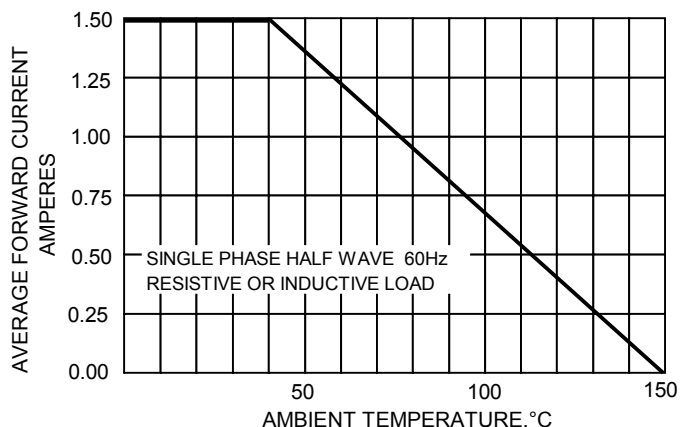


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

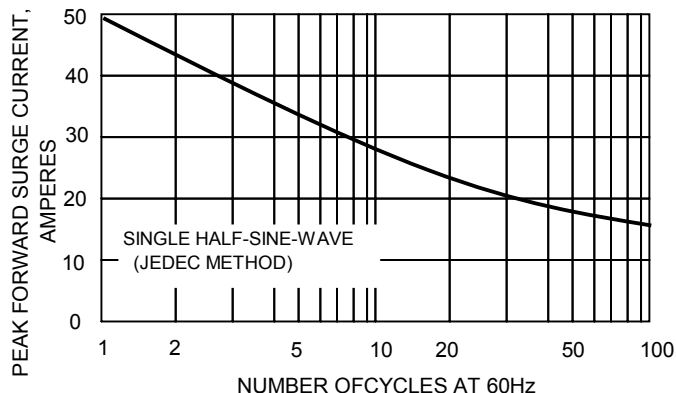


FIG.3-TYPICAL JUNCTION CAPACITANCE

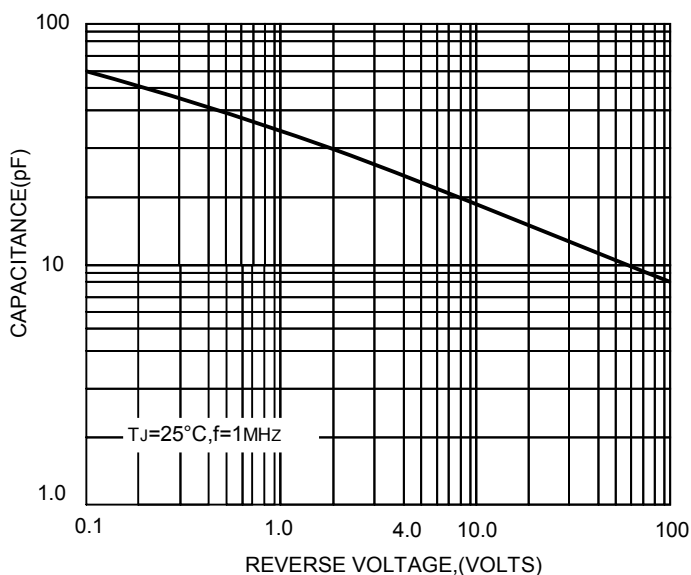


FIG.4-TYPICAL FORWARD CHARACTERISTICS

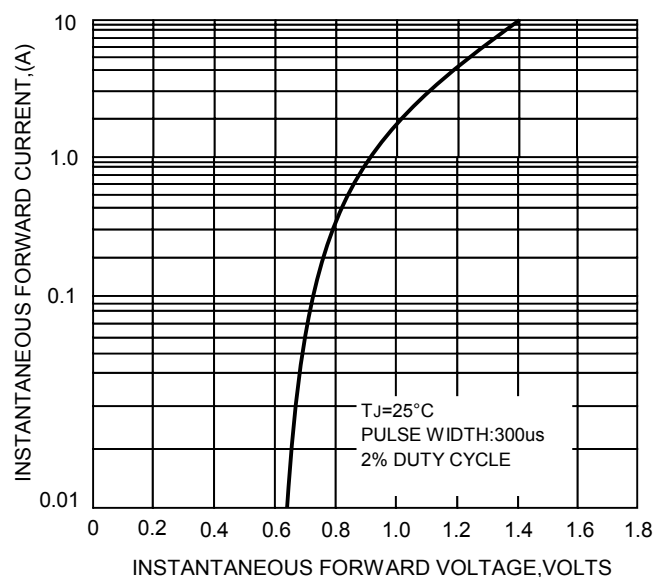


FIG.5-TYPICAL REVERSE CHARACTERISTICS

