

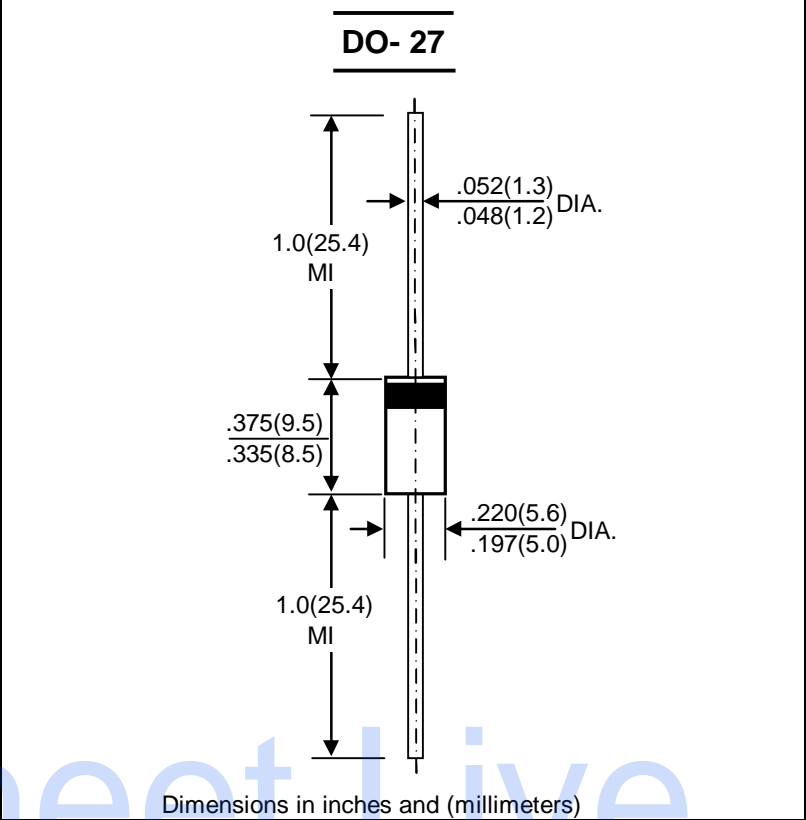
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| GLASS PASSIVATED RECTIFIERS | REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3.0 Amperes |
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FEATURES

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces , 1.1grams
- Mounting position: Any



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 | 1N 5400G | 1N 5401G | 1N 5402G | 1N 5403G | 1N 5404G | 1N 5405G | 1N 5406G | 1N 5407G | 1N 5408G | UNIT |
|---|--------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | VRMS | 35 | 70 | 140 | 210 | 280 | 350 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @TA =55 °C | I(AV) | 3.0 | | | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Supe Imposed on Rated Load(JEDEC Method) | IFSM | 200 | | | | | | | | | A |
| Maximum Forward Voltage at 3.0A DC | VF | 1.2 | | | | | | | | | V |
| Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C | IR | 5.0 | | | | | | | | | uA |
| Typical Junction Capacitance (Note1) | CJ | 50 | | | | | | 35 | | | pF |
| Typical Thermal Resistance (Note2) | RθJA | 15 | | | | | | | | | °C/W |
| Operating Temperature Range | TJ | -55 to +150 | | | | | | | | | °C |
| Storage Temperature Range | TSTG | -55 to +150 | | | | | | | | | °C |

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 2.Thermal resistance junction of ambient.

FIG. 1 – FORWARD CURRENT DERATING CURVE

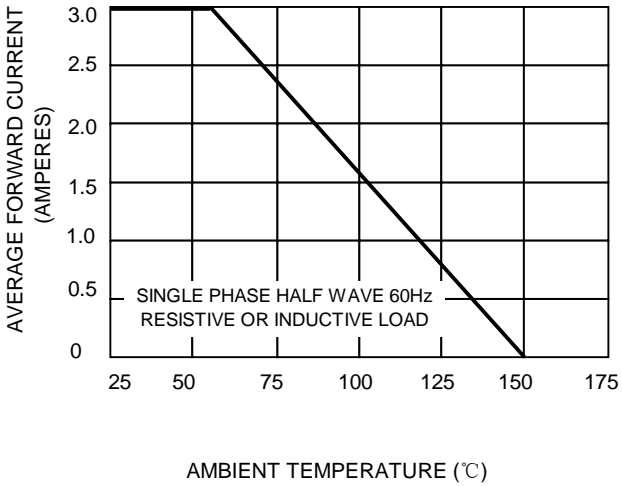


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

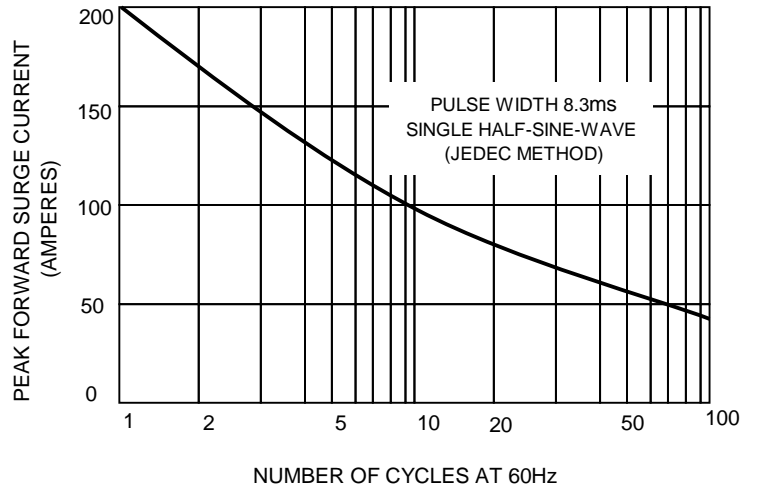


FIG.3 – TYPICAL JUNCTION CAPACITANCE

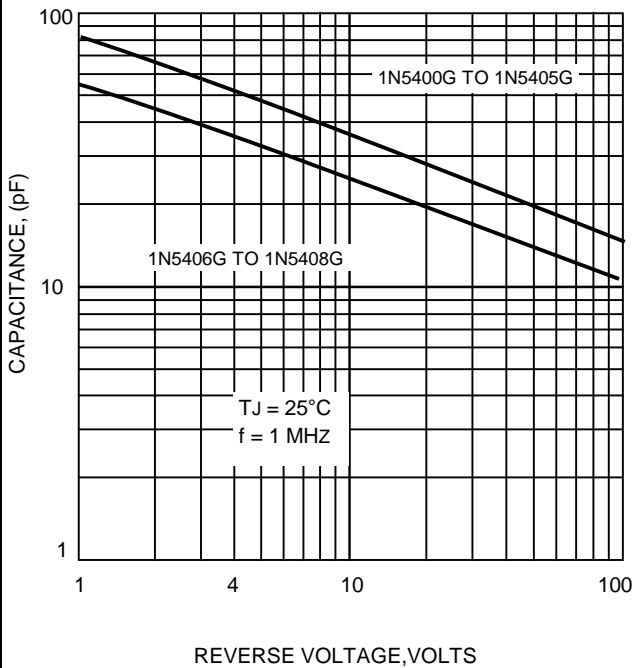


FIG.4-TYPICAL FORWARD CHARACTERISTICS

