

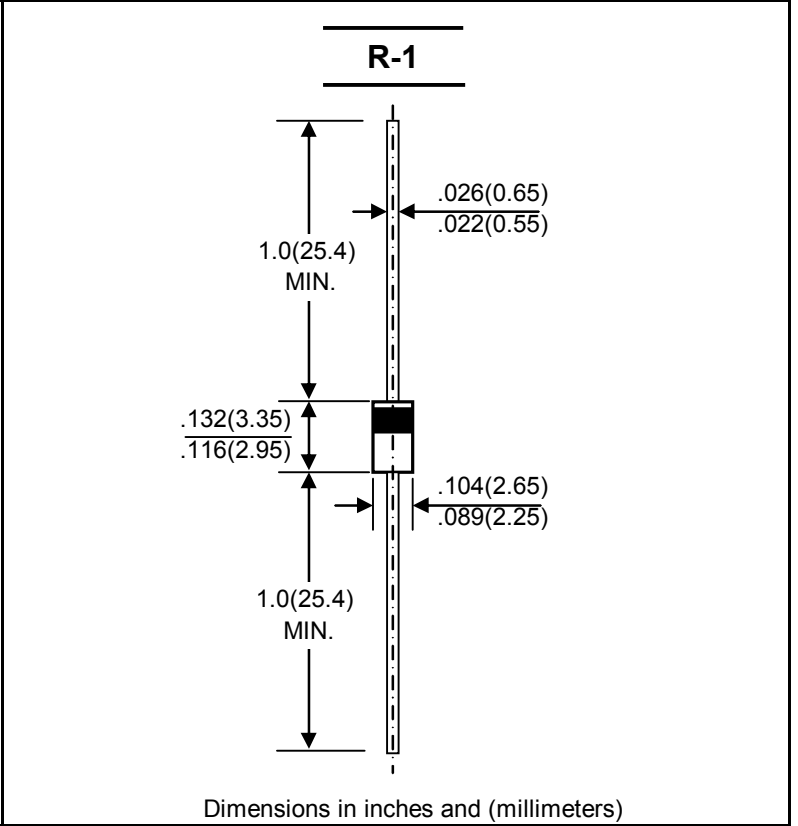
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| PLASTIC SILICON RECTIFIERS | REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere |
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FEATURES

- 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 R-1 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.15 grams
- 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 | 1A1 | 1A2 | 1A3 | 1A4 | 1A5 | 1A6 | 1A7 | 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=75 °C | I(AV) | 1.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method) | IFSM | 30 | | | | | | | A |
| Maximum Forward Voltage at 1.0A DC | VF | 1.0 | | | | | | | V |
| Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C | IR | 5.0 | | | | | | | μA |
| Typical Junction Capacitance (Note1) | CJ | 10 | | | | | | | pF |
| Typical Thermal Resistance (Note2) | RθJA | 26 | | | | | | | °C/W |
| Operating Temperature Range | TJ | -55 to +125 | | | | | | | °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 to ambient.

FIG. 1 - FORWARD CURRENT DERATING CURVE

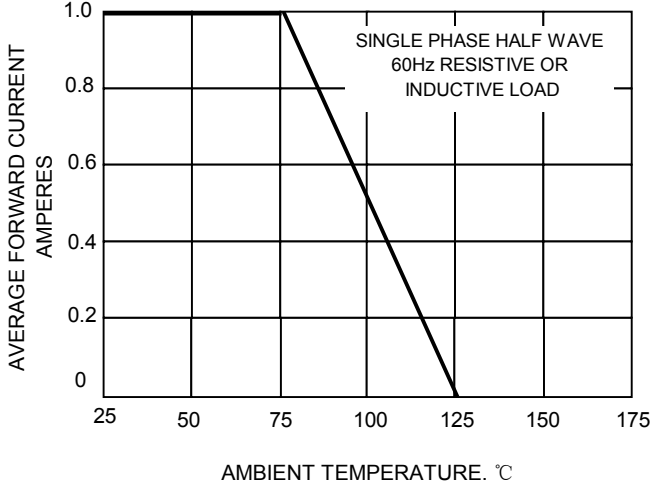


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

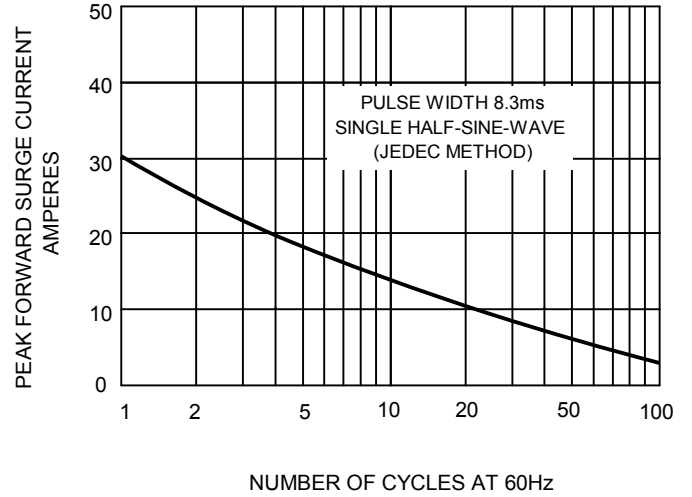


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

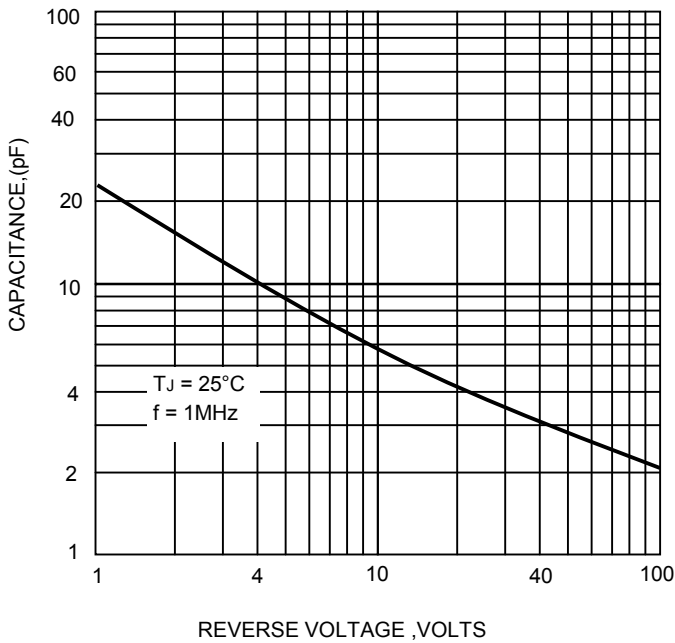


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

