

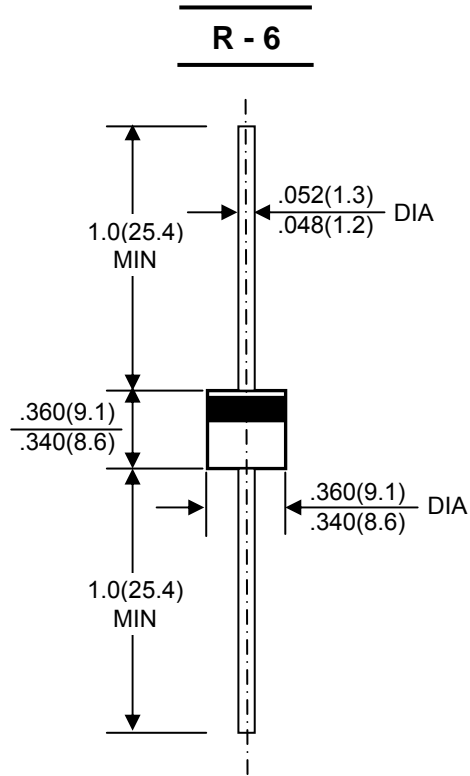
|                                   |  |
|-----------------------------------|--|
| <b>PLASTIC SILICON RECTIFIERS</b> | <b>REVERSE VOLTAGE - 50 to 1000 Volts</b><br><b>FORWARD CURRENT - 10.0 Amperes</b> |
|-----------------------------------|--|

### 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-6 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.07 ounces , 2.1 grams
- 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            | 10A05       | 10A1 | 10A2 | 10A4 | 10A6 | 10A8 | 10A10 | UNIT |
|--|-------------------|-------------|------|------|------|------|------|-------|------|
| Maximum Recurrent Peak Reverse Voltage   | V <sub>RRM</sub>  | 50          | 100  | 200  | 400  | 600  | 800  | 1000  | V    |
| Maximum RMS Voltage  | V <sub>RMS</sub>  | 35          | 70   | 140  | 280  | 420  | 560  | 700   | V    |
| Maximum DC Blocking Voltage  | V <sub>DC</sub>   | 50          | 100  | 200  | 400  | 600  | 800  | 1000  | V    |
| Maximum Average Forward Rectified Current @T <sub>A</sub> =60°C                                      | I <sub>(AV)</sub> | 10.0        |      |      |      |      |      |       | A    |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)     | I <sub>FSM</sub>  | 400         |      |      |      |      |      |       | A    |
| Maximum Forward Voltage at 10A DC  | V <sub>F</sub>    | 1.0         |      |      |      |      |      |       | V    |
| Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C | I <sub>R</sub>    | 10          |      |      |      |      |      |       | μA   |
| Typical Junction Capacitance (Note1)   | C <sub>J</sub>    | 150         |      |      |      |      |      |       | pF   |
| Typical Thermal Resistance (Note2)   | R <sub>θJC</sub>  | 6.0         |      |      |      |      |      |       | °C/W |
| Operating Temperature Range  | T <sub>J</sub>    | -55 to +150 |      |      |      |      |      |       | °C   |
| Storage Temperature Range  | T <sub>STG</sub>  | -55 to +150 |      |      |      |      |      |       | °C   |

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

2.Thermal resistance junction to case.

3.The typical data above is for reference only(典型值仅供参考).

FIG. 1 – FORWARD CURRENT DERATING CURVE

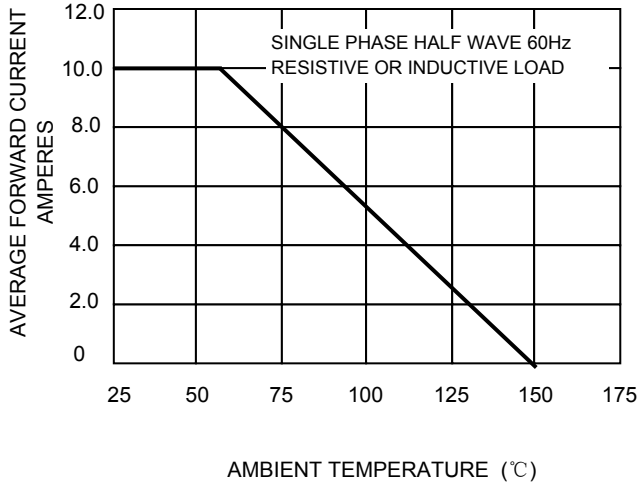


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

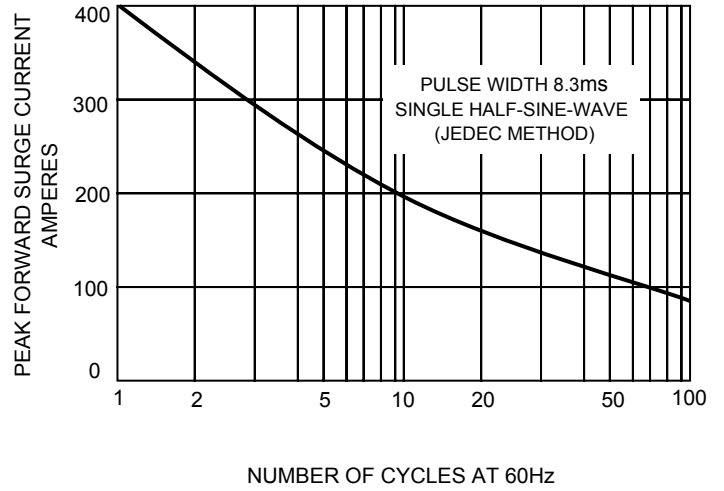


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

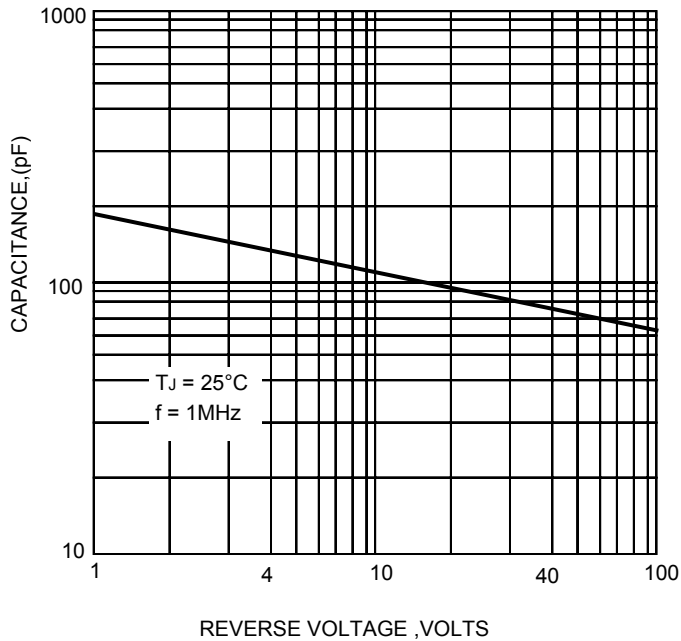
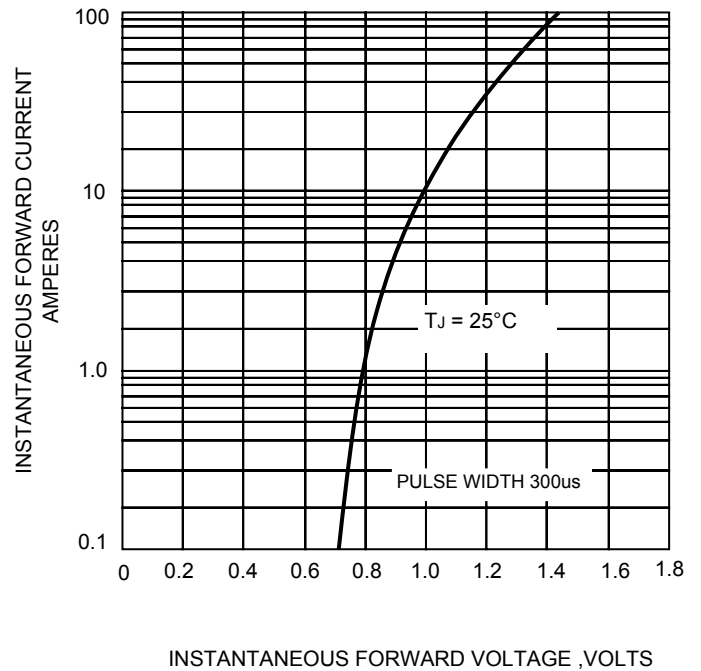


FIG. 4-TYPICAL FORWARD CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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