



# THE DATASHEET OF CURA107-G

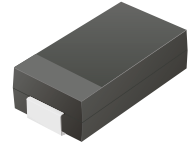


## CURA101-G Thru. CURA107-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device

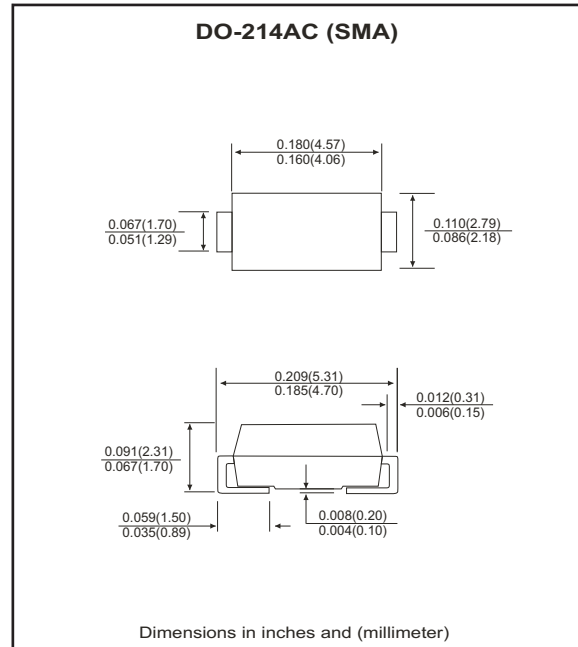


### Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Ultra fast recovery time: 50~75nS.
- Low leakage current.

### Mechanical data

- Case: JEDEC DO-214AC, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.063 grams



### Maximum Ratings and Electrical Characteristics

| Parameter  | Symbol          | CURA 101-G | CURA 102-G | CURA 103-G | CURA 104-G | CURA 105-G  | CURA 106-G | CURA 107-G | Units         |
|--|-----------------|------------|------------|------------|------------|-------------|------------|------------|---------------|
| Max. repetitive peak reverse voltage   | $V_{RRM}$       | 50         | 100        | 200        | 400        | 600         | 800        | 1000       | V             |
| Max. DC blocking voltage   | $V_{DC}$        | 50         | 100        | 200        | 400        | 600         | 800        | 1000       | V             |
| Max. RMS voltage   | $V_{RMS}$       | 35         | 70         | 140        | 280        | 420         | 560        | 700        | V             |
| Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method) | $I_{FSM}$       | 30         |            |            |            |             |            |            | A             |
| Max. average forward current   | $I_o$           | 1.0        |            |            |            |             |            |            | A             |
| Max. instantaneous forward voltage at 1.0A   | $V_F$           | 1.0        |            |            | 1.3        | 1.7         |            |            | V             |
| Reverse recovery time  | $T_{rr}$        | 50         |            |            |            | 75          |            |            | nS            |
| Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=100^{\circ}C$        | $I_R$           |            |            |            |            | 5.0         | 100        |            | $\mu A$       |
| Max. thermal resistance (Note 1)   | $R_{\theta JL}$ |            |            |            |            | 42          |            |            | $^{\circ}C/W$ |
| Max. operating junction temperature  | $T_J$           |            |            |            |            | 150         |            |            | $^{\circ}C$   |
| Storage temperature  | $T_{STG}$       |            |            |            |            | -55 to +150 |            |            | $^{\circ}C$   |

Notes: 1. Thermal resistance from junction to lead.

## RATING AND CHARACTERISTIC CURVES (CURA101-G thru CURA107-G)

Fig.1 Reverse Characteristics

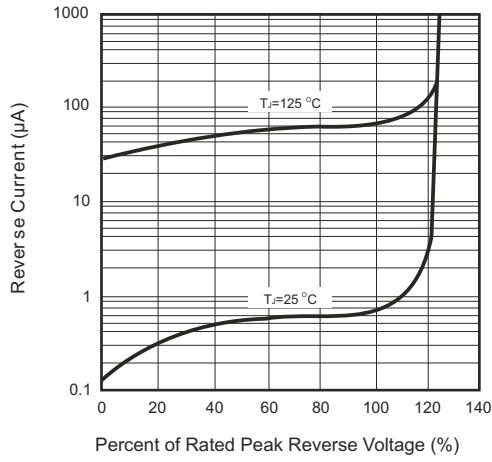


Fig.2 Forward Characteristics

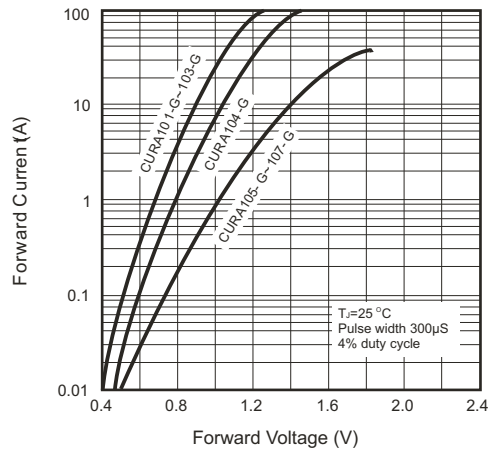


Fig.3 Junction Capacitance

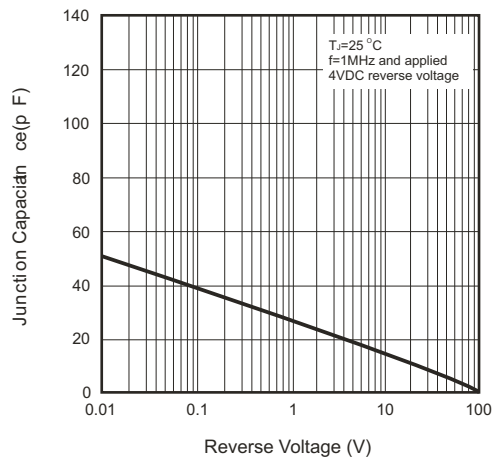


Fig.4 Non-repetitive Forward Surge Current

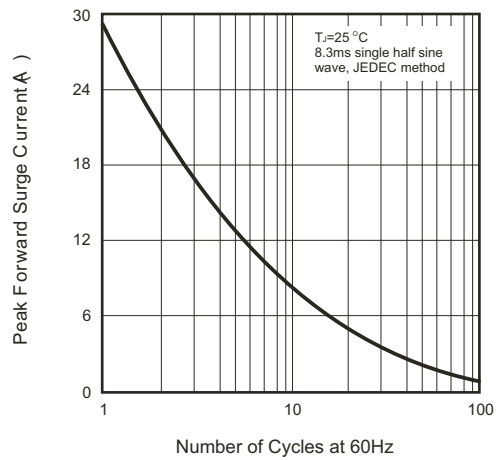


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

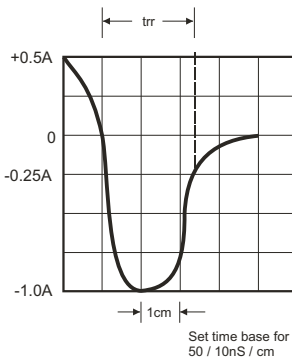
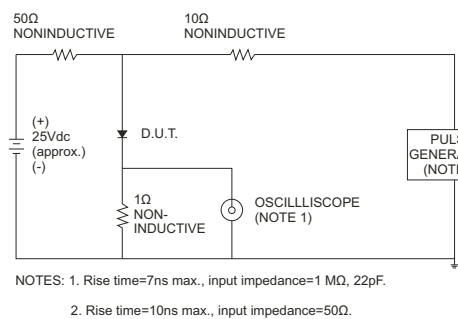
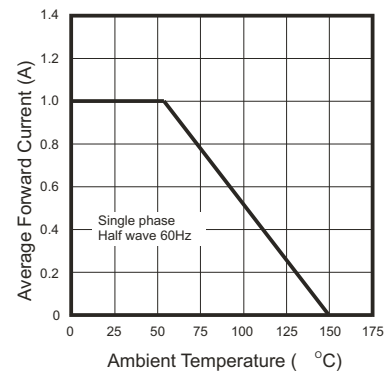


Fig.6 Current Derating Curve



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