

# Surface Mount Glass Passivated Rectifier

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## Features:

- Glass passivated chip
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

## Mechanical Data:

|                   |                               |
|-------------------|-------------------------------|
| Case              | : Molded Plastic              |
| Polarity          | : Colour band denotes cathode |
| Weight            | : 0.002 ounces, 0.053 grams   |
| Mounting Position | : Any                         |
| Reverse Voltage   | : 600 Volts                   |
| Forward Current   | : 2 Amperes                   |

## 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          | Values      | Unit               |
|---------------------------------------------------------------------------------------------------------------------|-----------------|-------------|--------------------|
| Max. Recurrent Peak Reverse Voltage                                                                                 | $V_{RRM}$       | 600         | V                  |
| Max. RMS Voltage                                                                                                    | $V_{RMS}$       | 420         |                    |
| Max. DC Blocking Voltage                                                                                            | $V_{DC}$        | 600         |                    |
| Max. Average Forward Rectified Current<br>$T_L = 100^\circ\text{C}$                                                 | $I_{(AV)}$      | 2           | A                  |
| Peak Forward Surge Current,<br>8.3ms Single Half Sine-wave<br>Superimposed on Rated Load (JEDEC method )            | $I_{FSM}$       | 60          |                    |
| Peak Forward Voltage at 2A DC                                                                                       | $V_F$           | 1.1         | V                  |
| Max. DC Reverse Current at<br>Rated DC Blocking Voltage at<br>$T_A = 25^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$ | $I_R$           | 5<br>125    | $\mu\text{A}$      |
| Typical Junction Capacitance (Note 1)                                                                               | $C_J$           | 20          | pF                 |
| Typical Thermal Resistance (Note 2)                                                                                 | $R_{\theta JL}$ | 20          | $^\circ\text{C/W}$ |
| Operating Temperature Range                                                                                         | $T_J$           | -55 to +150 | $^\circ\text{C}$   |
| Storage Temperature Range                                                                                           | $T_{STG}$       |             |                    |

### Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Thermal resistance junction to ambient.
3. The typical data above is for reference only

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## Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

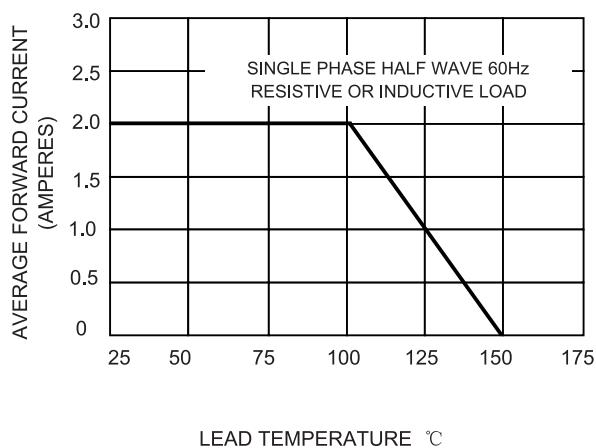


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

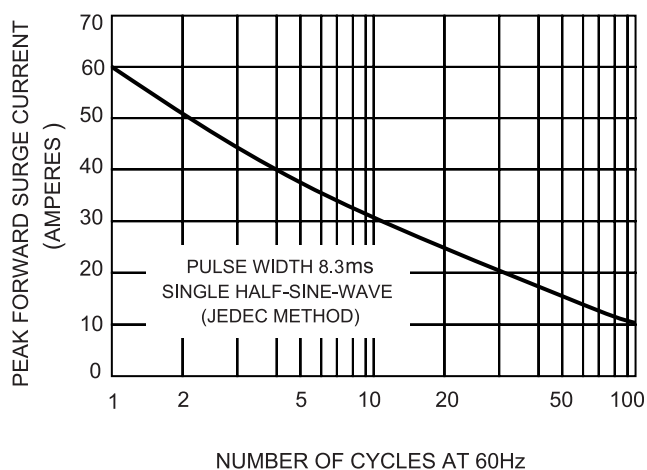


FIG.3-TYPICAL FORWARD CHARACTERISTICS

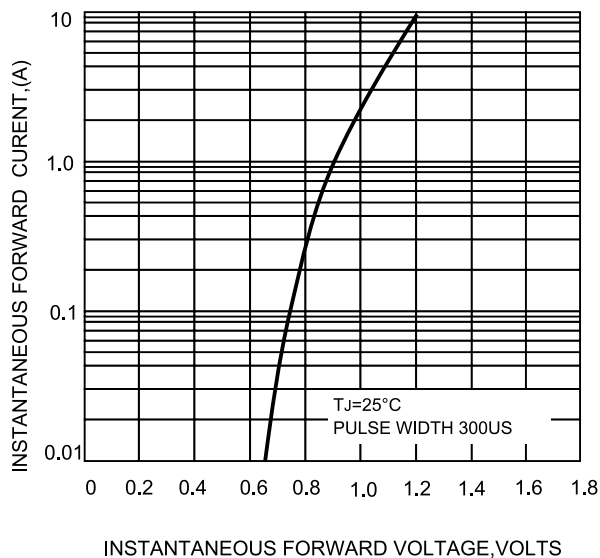
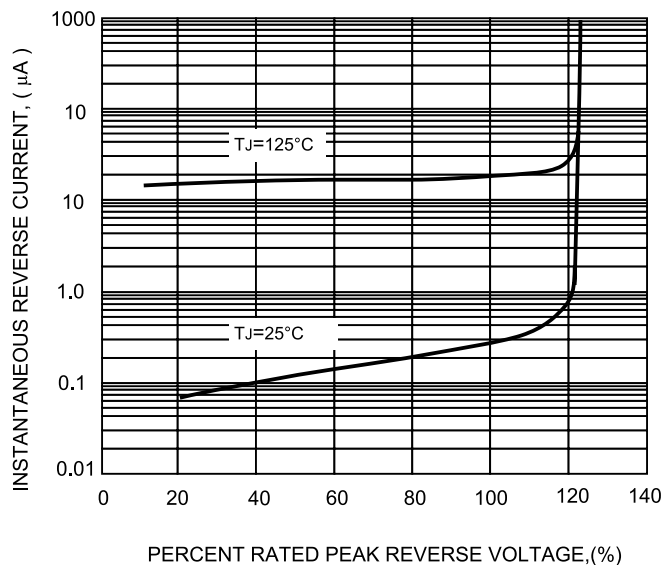


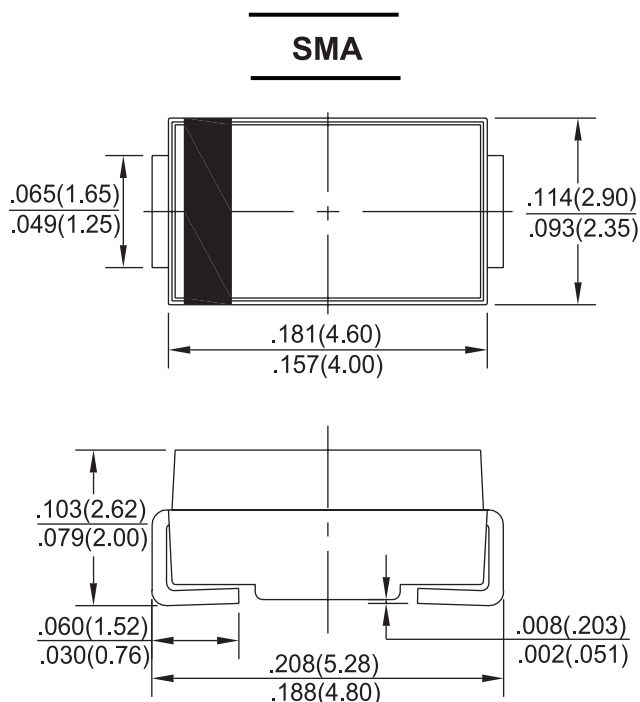
FIG.4-TYPICAL REVERSE CHARACTERISTICS



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## Dimensions:



Dimensions : Inches (Millimetres)

## Part Number Table

| Description                                               | Part Number |
|-----------------------------------------------------------|-------------|
| Surface Mount Glass Passivated Rectifiers,<br>2A 600V SMA | S2JA+       |

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