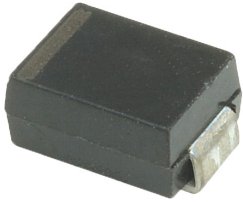


# Surface Mount Rectifier



## Features:

- Low reverse leakage
- Glass passivated chip junction
- High forward surge capability
- High temperature soldering guaranteed 260°C/10s seconds at terminals

## Mechanical Data:

Case : Molded Plastic body  
Terminals : Solder plated  
Polarity : Color band denotes cathode end  
Mounting Position : Any  
Reverse Voltage : 400 Volts  
Forward Current : 5 Amperes

## Maximum Ratings and Electrical Characteristics:

T<sub>A</sub> = 25°C unless otherwise noted.

| Characteristics  | Symbol             | Values      | Unit |
|--|--------------------|-------------|------|
| Max. Repetitive peak reverse voltage                                       | V <sub>RRM</sub>   | 400         | V    |
| Max. RMS Voltage   | V <sub>RMS</sub>   | 280         |      |
| Max. DC Blocking Voltage   | V <sub>DC</sub>    | 400         |      |
| Max. Average Forward Rectified Current<br>T <sub>L</sub> = 75°C            | I <sub>F(AV)</sub> | 5           | A    |
| Peak Forward Surge Current,<br>8.3ms Single Half Sine-wave                 | I <sub>FSM</sub>   | 100         |      |
| Max. Forward Voltage @ I <sub>F</sub> = 5A                                 | V <sub>F</sub>     | 1.15        | V    |
| Max. Peak reverse current full cycle @T <sub>A</sub> = 75°C                | I <sub>R(AV)</sub> | 50          | µA   |
| Max. Reverse Current at<br>T <sub>A</sub> = 25°C<br>T <sub>A</sub> = 100°C | I <sub>R</sub>     | 10<br>250   |      |
| Type junction capacitance V <sub>R</sub> = 4V, f = 1MHz                    | C <sub>J</sub>     | 60          | pF   |
| Thermal Resistance Junction to ambient                                     | R <sub>θJA</sub>   | 47          | °C/W |
| Operating Temperature Range  | T <sub>J</sub>     | -55 to +150 | °C   |
| Storage Temperature Range  | T <sub>STG</sub>   |             |      |

### Note:

1. The typical data above is for reference only.

## Ratings and Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

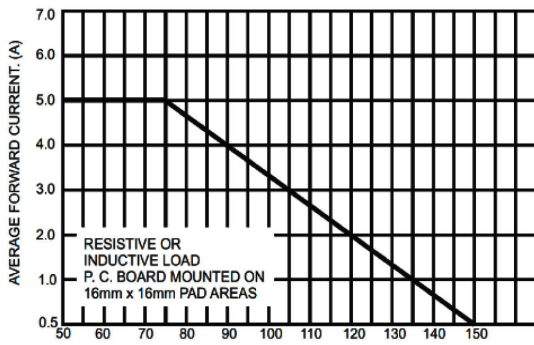


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

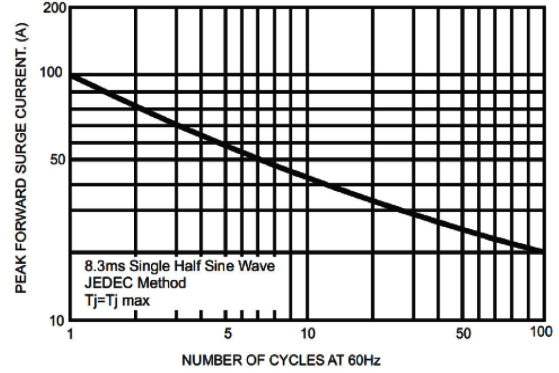


FIG.3- TYPICAL FORWARD CHARACTERISTICS

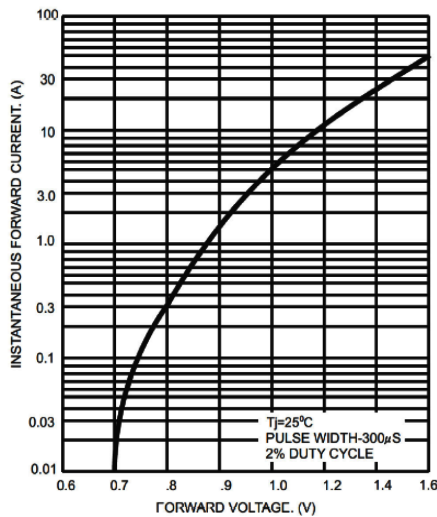


FIG.4- TYPICAL REVERSE CHARACTERISTICS

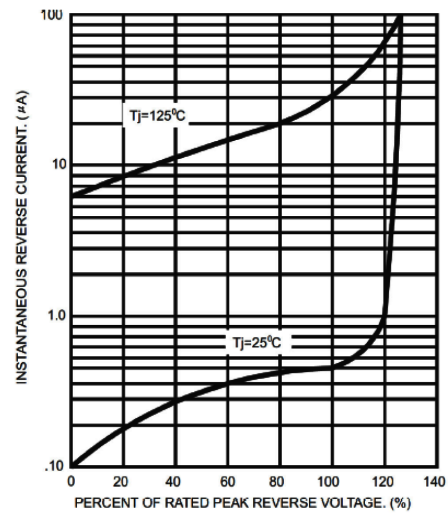
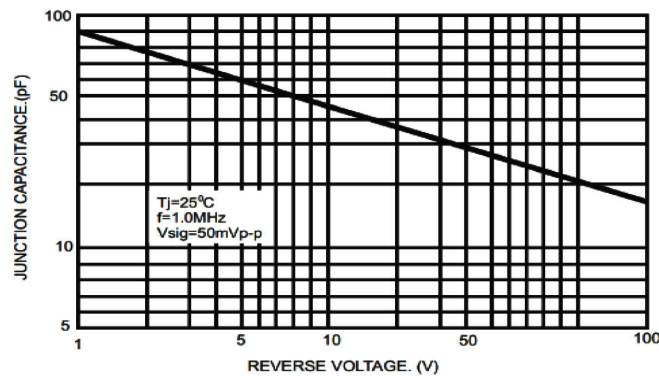


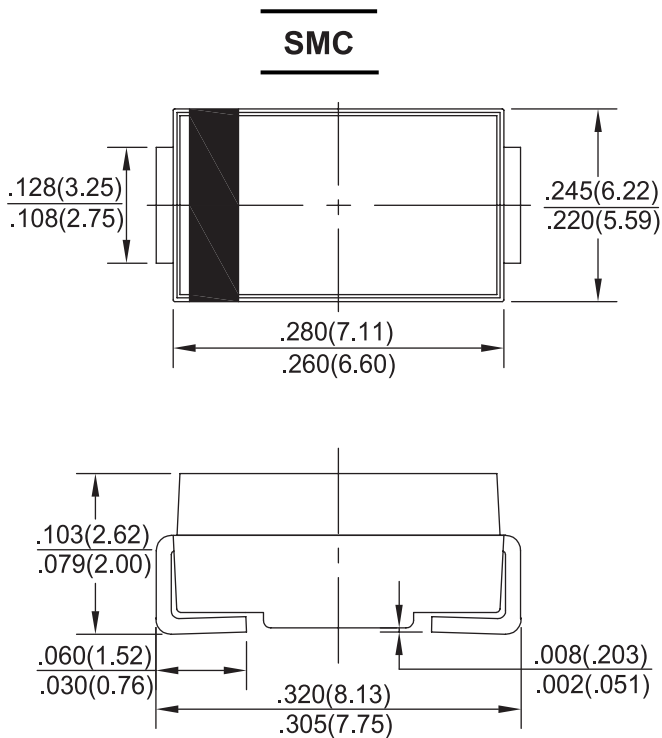
FIG.5- TYPICAL JUNCTION CAPACITANCE



# Surface Mount Rectifier



## Dimensions:



Dimensions : Inches (Millimetres)

## Part Number Table

| Description                  | Part Number |
|------------------------------|-------------|
| Diode Rectifier, 5A 400V SMC | S5G+        |

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