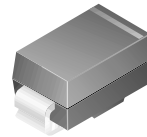


# FMKA140

## Features

- Compact surface mount with J-bend leads (SMA)
- 1.2 Watt Power Dissipation package
- 1.0 Ampere, forward voltage less than 600 mV



**SMA (D0-214AC)**  
Color Band Denotes Cathode  
Mark: A140

## Schottky Rectifier

### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

| Symbol             | Parameter  | Value       | Units |
|--------------------|--|-------------|-------|
| V <sub>RRM</sub>   | Maximum Repetitive Reverse Voltage                         | 40          | V     |
| I <sub>F(AV)</sub> | Average Rectified Forward Current @ T <sub>L</sub> = 120°C | 1.0         | A     |
| I <sub>FSM</sub>   | Non-repetitive Peak Forward Surge Current                  | 30          | A     |
| T <sub>stg</sub>   | Storage Temperature Range                                  | -65 to +150 | °C    |
| T <sub>j</sub>     | Operating Junction Temperature                             | -65 to +125 | °C    |

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### Thermal Characteristics

| Symbol           | Parameter   | Value | Units |
|------------------|---|-------|-------|
| R <sub>θJL</sub> | Thermal Resistance Junction to Lead<br>(Half wave, single phase, 60 Hz) | 9.6   | °C/W  |

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

| Symbol         | Parameter  | Value     | Units    |
|----------------|--|-----------|----------|
| V <sub>F</sub> | Forward Voltage @ I <sub>F</sub> = 1.0A,   | 600       | mV       |
| I <sub>R</sub> | Reverse Current @ V <sub>R</sub> = 40 V,<br>V <sub>R</sub> = 40 V, T <sub>A</sub> = 100 °C | 1.0<br>10 | mA<br>mA |

Typical Characteristics

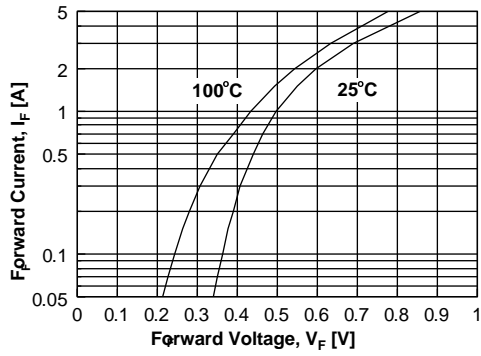


Figure 1. Forward Voltage Characteristics

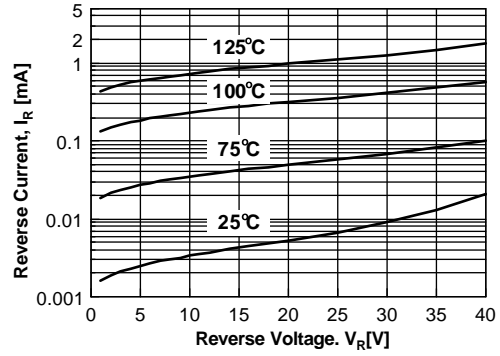


Figure 2. Reverse Current vs Reverse Voltage

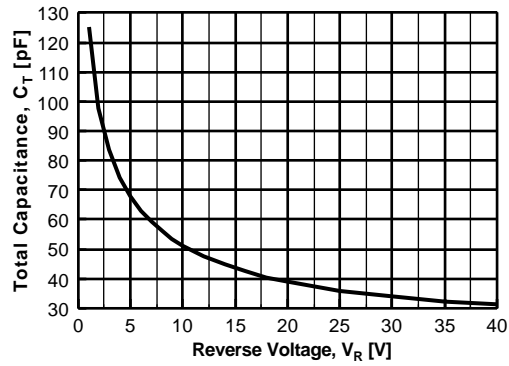


Figure 3. Total Capacitance

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| Bottomless <sup>TM</sup>          | FAST <sub>r</sub> <sup>TM</sup>  | OPTOPLANAR <sup>TM</sup>         | STAR*POWER <sup>TM</sup>     |                   |
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