

FS4**SURFACE MOUNT
ULTRAFAST RECTIFIER**

VOLTAGE: 400 V

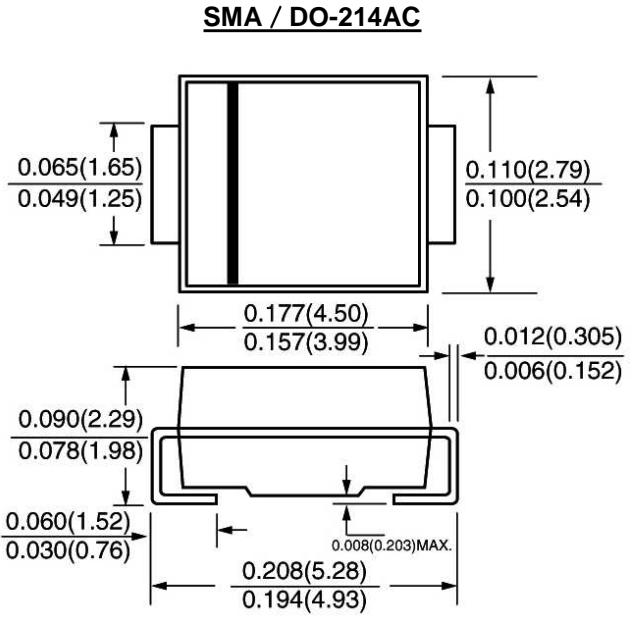
CURRENT: 1.0A

**FEATURE**

Ideal for surface mount pick and place application
 Low profile package
 Built-in strain relief
 High surge capability
 High temperature soldering guaranteed
 260°C/10sec/at terminals
 Glass passivated chip
 Ultrafast recovery time for high efficiency

MECHANICAL DATA

Terminal: Solder plated, solderable per MIL-STD-750,
 Method 2026
 Case: JEDEC DO-214AC molded plastic over glass
 passivated chip
 Polarity: Color band denotes cathode



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
 for capacitive load, derate current by 20%)

| | SYMBOL | FS4 | units |
|--|----------|---------------|------------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 400 | V |
| Maximum RMS Voltage | Vrms | 280 | V |
| Maximum DC blocking Voltage | Vdc | 400 | V |
| Maximum Average Forward Rectified Current 3/8" lead length at T _L = 110°C | If(av) | 1.0 | A |
| Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load | Ifsm | 30.0 | A |
| Maximum Forward Voltage at rated forward current | Vf | 1.25 | V |
| Maximum DC Reverse Current Ta = 25°C at rated DC blocking voltage Ta = 100°C | Ir | 10.0 100.0 | µ A µ A |
| Maximum Reverse Recovery Time (Note1) | Trr | 25 | nS |
| Typical Junction Capacitance (Note 2) | Cj | 18.0 | pF |
| Typical Thermal Resistance (Note 3) | R(jl) | 30.0 | °C/W |
| Storage and Operating Junction Temperature | Tstg, Tj | -50 to +150 | °C |

Note:

1. Reverse Recovery Condition If = 0.5A, Ir = 1.0A, Irr = 0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area¹

RATINGS AND CHARACTERISTIC CURVES FS4

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