

Absolute Maximum Ratings* $T_A = 25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Value | Units |
|-----------------------|---|-------------|-------|
| lo | Average Rectified Current | 500 | mA |
| İ _{f(surge)} | Peak Forward Surge Current half wave, single phase, 60 Hz Superimposed on rated load (JEDEC method) | 5.5 | А |
| V _{RRM} | Peak Repetitive Reverse Voltage | 40 | V |
| V _{RWM} | Working Peak Reverse Voltage | 40 | V |
| VR | DC Blocking Voltage | 40 | V |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient ** | 206 | °C/W |
| R _{0JL} | Thermal Resistance, Junction to Lead *** | 118 | °C/W |
| T _{stg} | Storage Temperature Range | -65 to +150 | °C |
| TJ | Operating Junction Temperature | -65 to +125 | °C |

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

** 1.0 inch" pad size (1.0 x 0.5 inch for each lead) on FR4 board.

*** Device mounted on FR-4 PCB 0.013 mm.

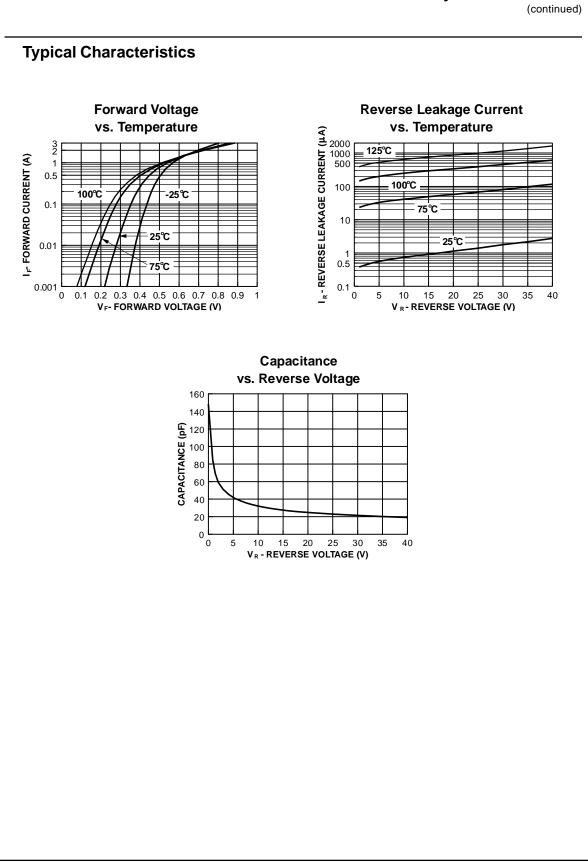
Electrical Characteristics T_A = 25°C unless otherwise noted

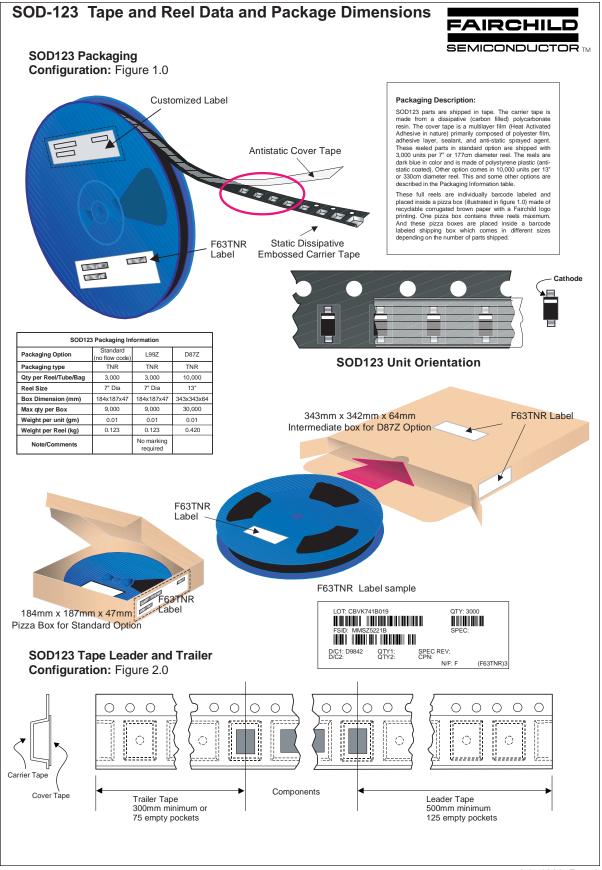
| Symbol | Parameter | Min | Max | Units |
|----------------|---|-----|--------------------------|----------------------|
| I _R | Reverse Leakage $V_R = 20 V$, $T_A = 25^{\circ}C$ $V_R = 20 V$, $T_A = 100^{\circ}C$ $V_R = 40 V$, $T_A = 25^{\circ}C$ $V_R = 40 V$, $T_A = 100^{\circ}C$ $V_R = 40 V$, $T_A = 100^{\circ}C$ | | 10 5.0 20 13 | μA mA μA mA |
| VF | Forward Voltage (Note 1) $I_F = 500 \text{ mA}, T_A = 25^{\circ}\text{C}$ $I_F = 500 \text{ mA}, T_A = 100^{\circ}\text{C}$ $I_F = 1.0 \text{ A}, T_A = 25^{\circ}\text{C}$ $I_F = 1.0 \text{ A}, T_A = 100^{\circ}\text{C}$ | | 510 460 620 610 | mV mV mV mV |

Note: Pulse Test: Pulse Width ≤ 250µs, Duty Cycle ≤ 2.0%

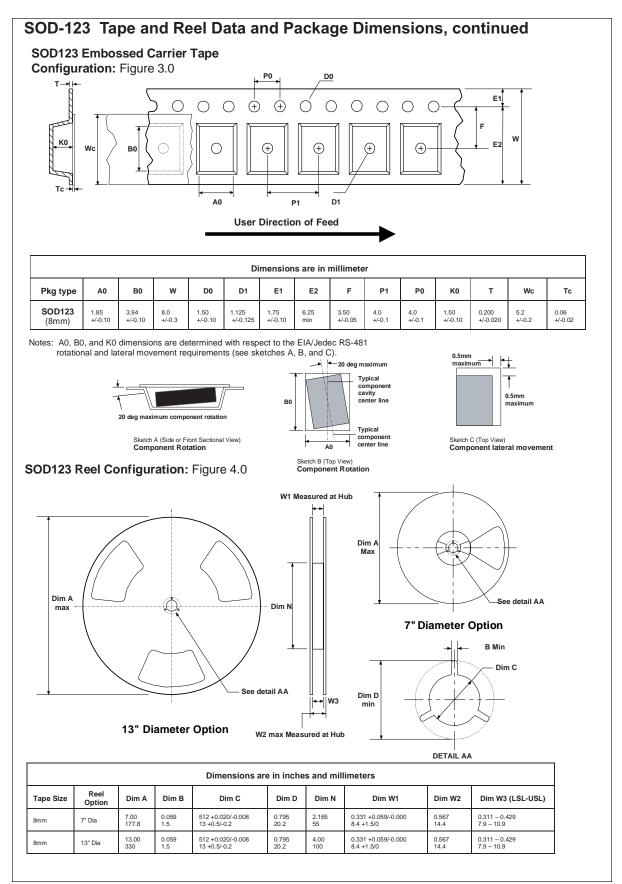
Schottky Power Rectifiers

MBR0540

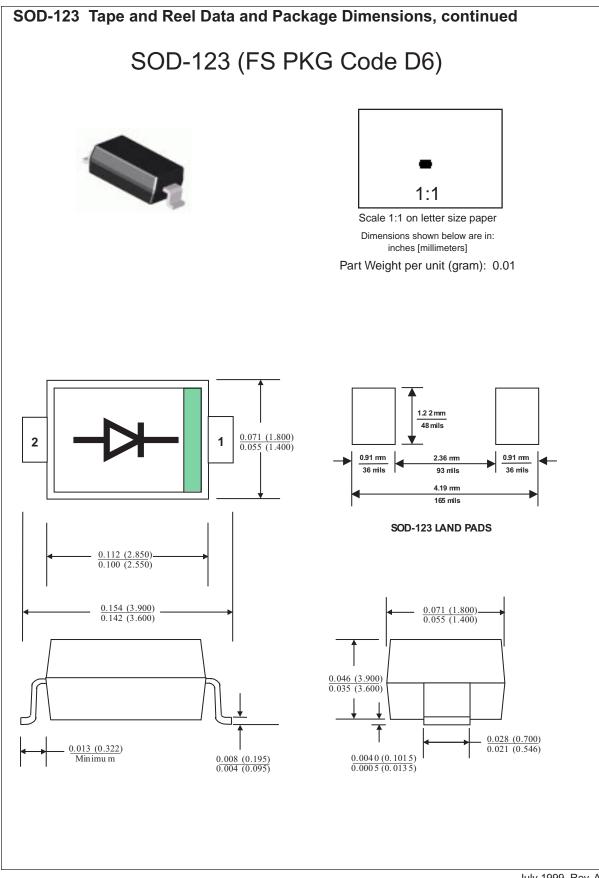




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|--------------------------|---------------------------|---|
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