

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.

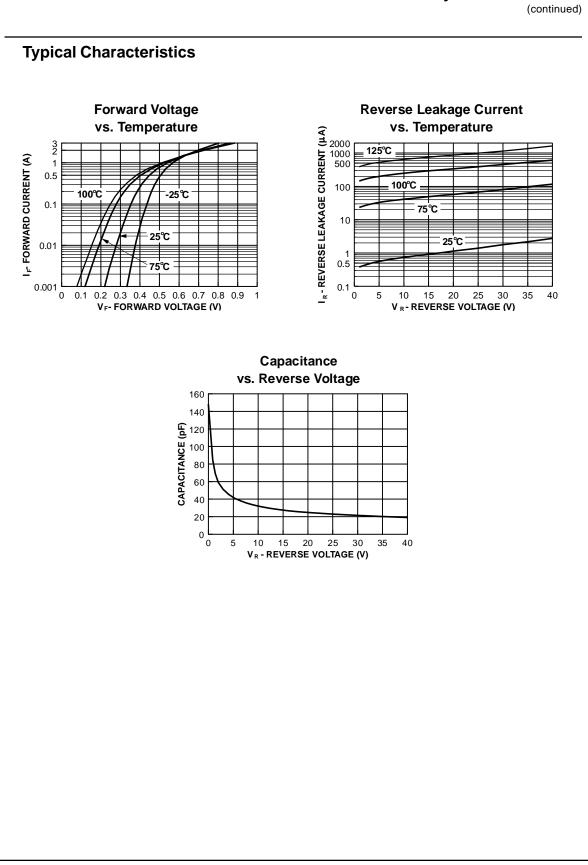
Electrical Characteristics T_A = 25°C unless otherwise noted

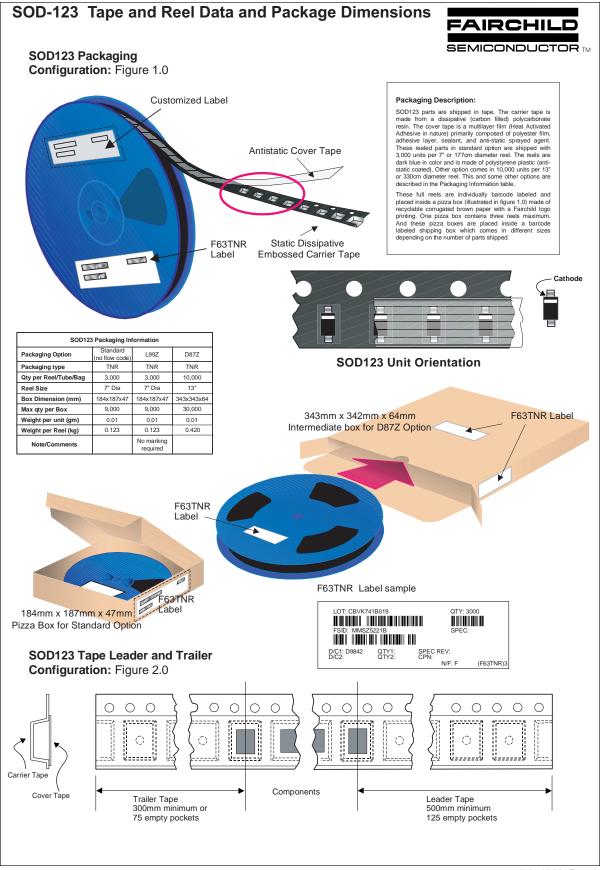
Symbol	Parameter	Min	Max	Units
I _R	Reverse Leakage $V_R = 20 V$, $T_A = 25^{\circ}C$ $V_R = 20 V$, $T_A = 100^{\circ}C$ $V_R = 40 V$, $T_A = 25^{\circ}C$ $V_R = 40 V$, $T_A = 100^{\circ}C$ $V_R = 40 V$, $T_A = 100^{\circ}C$		10 5.0 20 13	μA mA μA mA
VF	Forward Voltage (Note 1) $I_F = 500 \text{ mA},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

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

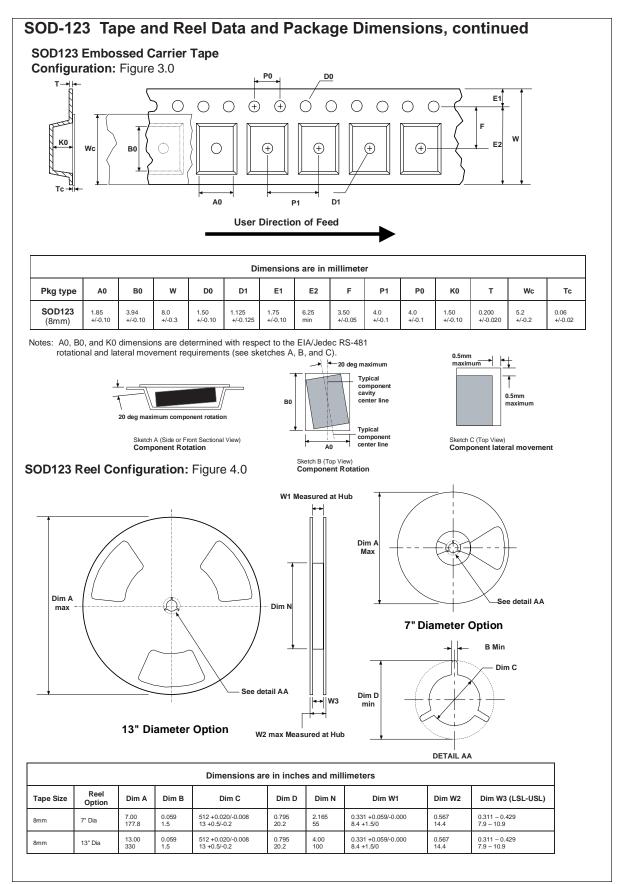
Schottky Power Rectifiers

MBR0540

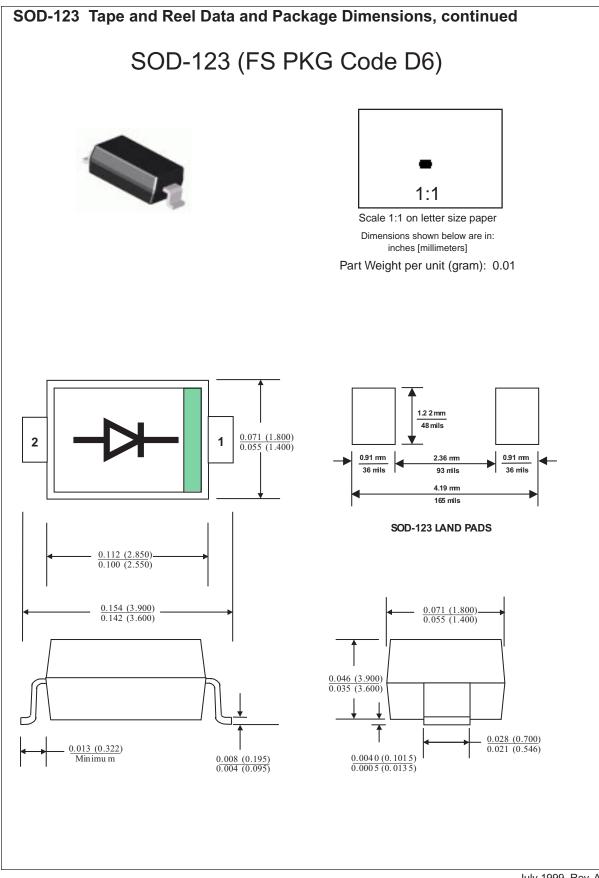




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