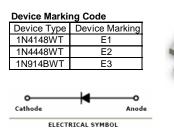


1N4148WT / 1N4448WT / 1N914BWT **High Conductance Fast Switching Diode**

- Fast Switching Diode (Trr <4.0nsec)
- Flat Lead, Surface Mount Device under 0.70mm Height
- Extremely Small Outline Plastic Package SOD523F
- Moisture Level Sensitivity 1
- Pb-free Version and RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Green Mold Compound





March 2008

Band Indicates Cathode*

Absolute Maximum Ratings* Ta=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RSM}	Non-Repetitive Peak Reverse Voltage	75	V
V _{RRM}	Repetitive Peak Reverse Voltage	75	V
I _{FRM}	Repetitive Peak Forward Current	300	mA
TJ	Operating Junction Temperature Range	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

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

NOTES:

These ratings are based on a maximum junction temperature of 150 degrees C.
These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

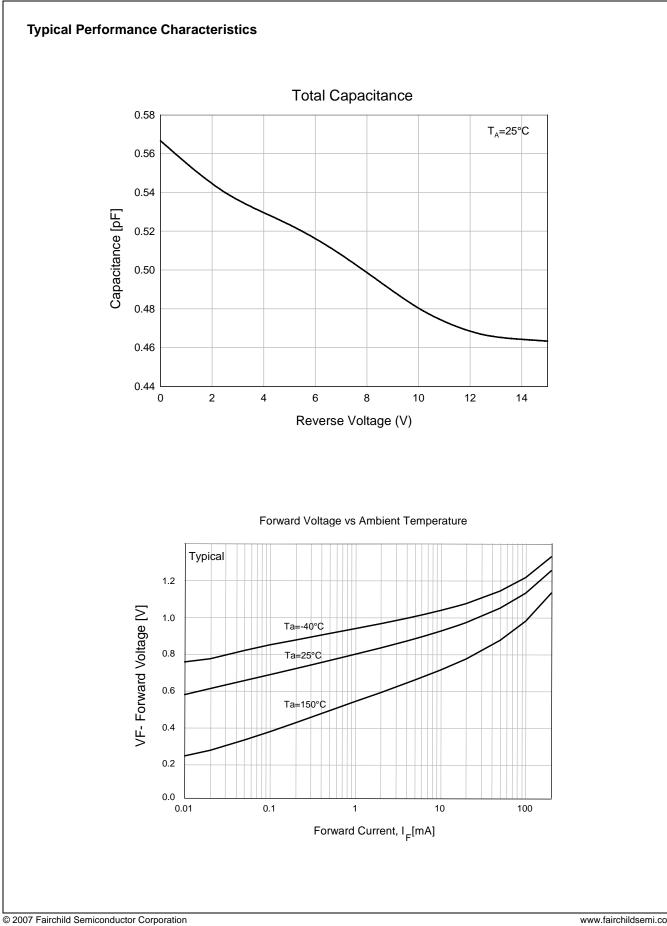
Thermal Characteristics

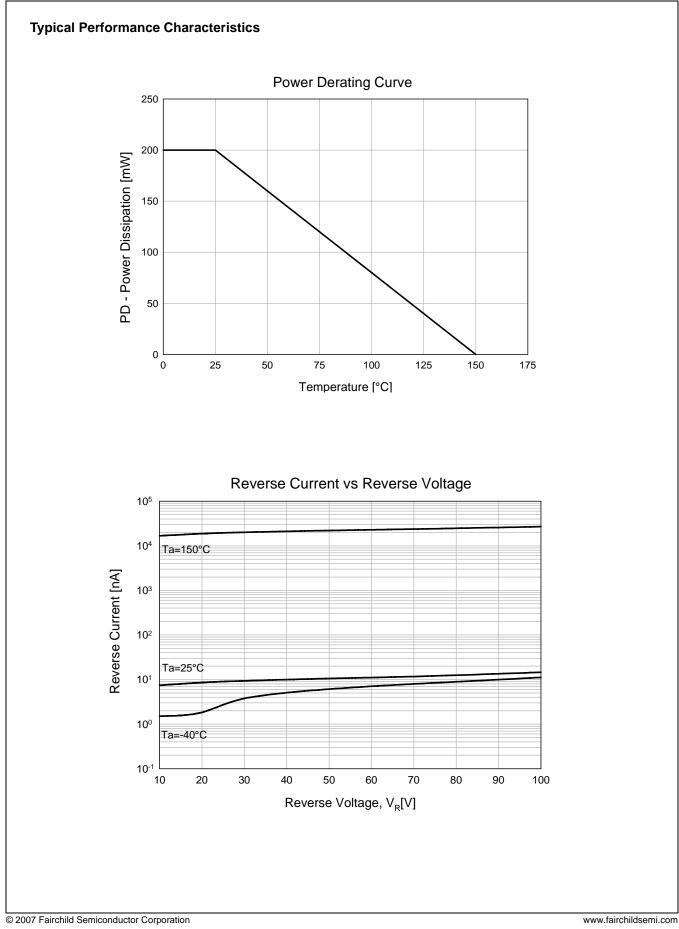
Symbol	Symbol Parameter		Unit
$R_{ hetaJA}$	Thermal Resistance, Junction to Ambient	500	°C/W
P _D	Power Dissipation(T_{C} =25°C)	200	mW

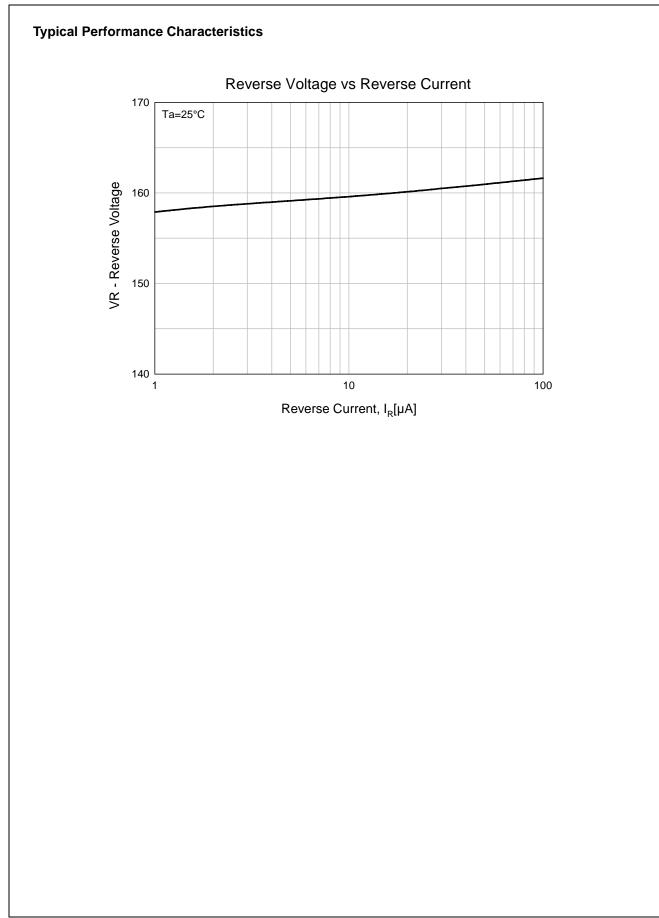
*Device mounted on FR-4 PCB minimum land pad.

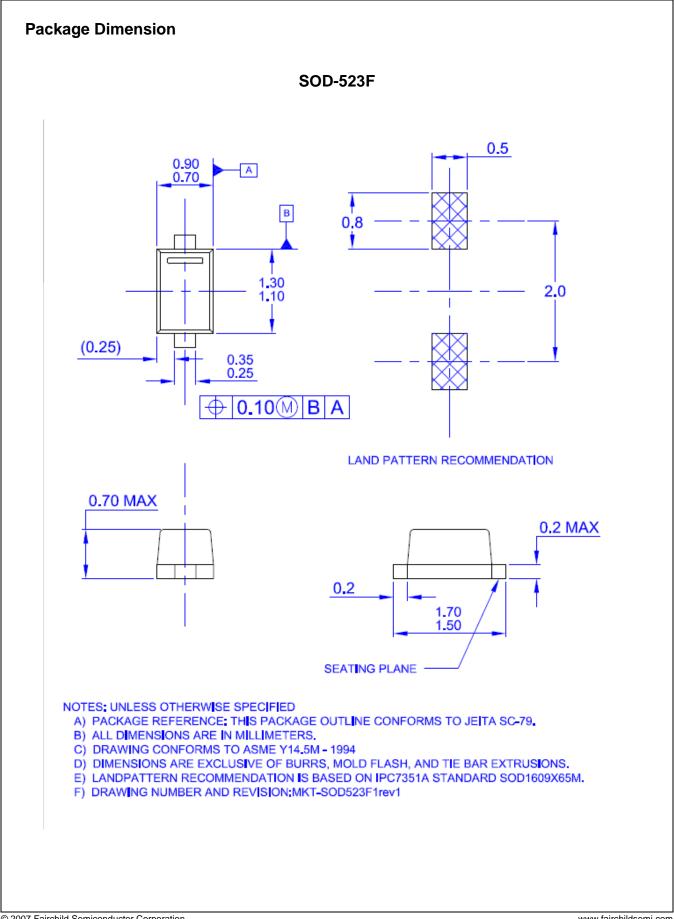
Electrical Characteristics* T_=25°C unless otherwise noted

Symbol	Parameter Breakdown Voltage		Test Conditions I _R = 100 μA I _R = 5 μA	Min 100 75	Тур	Max	Units V
BV _R							
I _R	Reverse Current		V _R = 20 V V _R = 75 V			25 5	nA μA
V _F	Forward Voltage	1N4448WT/ 914WT 1N4448WT 1N4448WT/ 914WT	I _F = 5 mA I _F = 10 mA I _F = 100 mA	0.62		0.72 1 1	V
Co	Diode Capacitance		V _R = 0, f = 1 MHz			4	pF
T _{RR}	Reverse Recovery Time		$I_F = 10$ mA, $V_R = 6.0$ V $I_{RR} = 1$ mA, $R_L = 100$ Ω			4	nS











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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.		
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontin- ued by Fairchild semiconductor. The datasheet is printed for reference infor- mation only.		