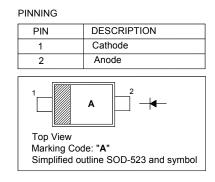
SURFACE MOUNT FAST SWITCHING DIODE

Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- High conductance



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Output Current	Ι _ο	125	mA
Forward Continuous Current	I _{FM}	250	mA
Non-Repetitive Peak Forward Surge Current at t = 1 μs at t = 100 ms	I _{FSM}	2 1	A
Power Dissipation	P _{tot}	150	mW
Thermal Resistance Junction to Ambient Air	$R_{ ext{ hetaJA}}$	833	°C/W
Operating Temperature Range	TJ	- 65 to + 150	°C
Storage Temperature Range	Ts	- 65 to + 150	°C

Characteristics at $T_a = 25 \ ^{\circ}C$

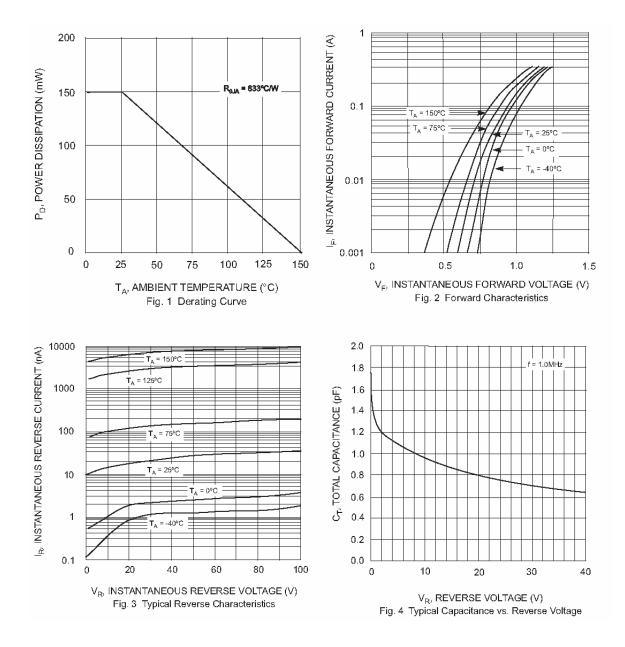
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 1 μA	V _{(BR)R}	75	-	V
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V _F	- - -	0.715 0.855 1 1.25	V
Peak Reverse Current at $V_R = 75 V$ at $V_R = 20 V$ at $V_R = 75 V$, $T_J = 150 °C$ at $V_R = 25 V$, $T_J = 150 °C$	I _R	- - -	1 25 50 30	μA nA μA
Total Capacitance at $V_R = 0 V$, f = 1 MHz	CT	-	2	pF
Reverse Recovery Time at I_{rr} = 0.1 X I_R , I_F = I_R = 10 mA, R_L = 100 Ω	t _{rr}	-	4	ns



SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



1N4148WT









Dated : 23/11/2006

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

ALL ROUND ∢ H_E D -(A) q ш С Е V UNIT D H_{E} bp А _ 0.70 0.60 0.4 0.135 1.25 0.85 1.7 0.1 5° mm 0.3 0.75 0.127 1.15 1.5







SOD-523

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