SOD-523



MARKING: 1N4148WT T4 1N4448WT T5 1N914BWT T6

Features

- Fast Switching Device (TRR <4.0 nS)
- Power Dissipation of 200mW
- High Stability and High Reliability
- Low reverse leakage

Mechanical Data

- SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- EpoxyUL:94V-0
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	VR	75	V
Peak Reverse Voltage	VRM	100	V
Power Dissipation	Pd	500	mW
Operating junction temperature	Tj	150	$^{\circ}\mathbb{C}$
Storage temperature range	Тѕтс	-65-+150	°C
Thermal Resistance from Junction to Ambient	R θ JA	250	°C/W
Average Rectified Current	lo	150	mA
Non-repetitive Peak Forward Current	lғм	300	mA
Peak Forward Surge Current	IFSM	2.0	Α
@tp=1us; TA=25℃			

Valid provided that electrodes are kept at ambient temperature.

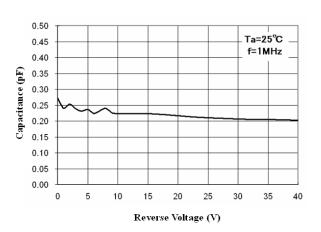
Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified).

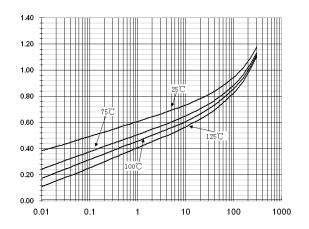
Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
В۷	Breakdown Voltage	IR=100uA	100		V
		IR=5uA	75		V
IR Reverse Leakage Current	VR=20V		25	nA	
	Treverse Leanage Garrent	VR=75		5	uA
VF	1N4448WT,IN914BWT	IF=5mA	0.62	0.72	
	Forward Voltage 1N4148WT	IF=10mA		1.00	V
	1N4448WT,IN914BWT	IF=100mA		1.25	
TRR Reverse Recovery		IF = IR = 10mA,			
	Reverse Recovery Time	Irr=0.1XIR		4	nS
		RL=100Ω			
С	Capacitance	VR=0V, f=1MHZ		4	pF



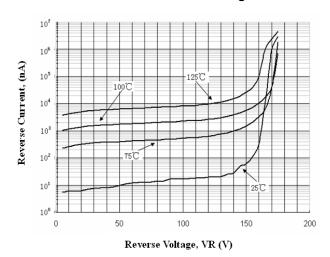
Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse VoltageReverse



Flat Lead SOD-523 Package Outline

