#### **SOD-523**



MARKING: 1N4148WT E1 1N4448WT T5 1N914BWT T6

## **Features**

- Fast Switching Device (TRR <4.0 nS)</li>
- 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	°C
Storage temperature range	Тѕтс	-65-+150	°C
Thermal Resistance from Junction to Ambient	R $\theta$ JA	250	°C/W
Average Rectified Current	lo	150	mA
Non-repetitive Peak Forward Current	Iгм	300	mA
Peak Forward Surge Current	İFSM	2.0	А
@tp=1us; TA=25℃			

Valid provided that electrodes are kept at ambient temperature.

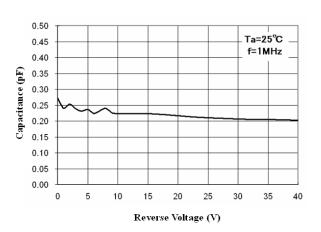
## **Electrical Characteristics**

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

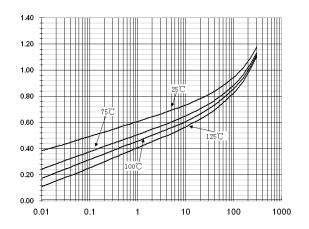
Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
Bv	Breakdown Voltage	IR=100uA	100		V
		IR=5uA	75		V
İR	Reverse Leakage Current	VR=20V		25	nA
		VR=75		5	uA
<b>VF</b> Forward Voltage	1N4448WT,IN914BWT	IF=5mA	0.62	0.72	
	Forward Voltage 1N4148WT	IF=10mA		1.00	V
	1N4448WT,IN914BWT	IF=100mA		1.25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



#### **Total Capacitance**

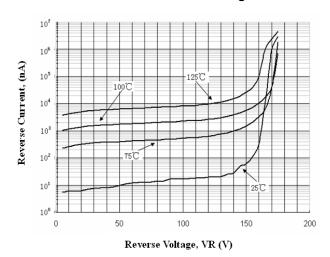


# Forward Voltage vs Ambient Temperature



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#### Reverse Current vs Reverse VoltageReverse



#### Flat Lead SOD-523 Package Outline

