

**Dimensions in mm** 

SOD-523

## Feature

- \* Low Turn-On Voltage
- \* Fast Switching
- \* Ultra Small Surface mount Package
- \* ESD protection
- \* Marking JV

Max Ratings at Ta=25C Unless Otherwise Specified

Hax Ratings at 14-250 onicss otherwise opecine			
Characteristic	Symbol	BAT54X	Unit
Peak Repetitive Reverse Voltage	Vrrm	30	V
working Peak Reverse Voltage	Vrwm	30	V
DC Blocking Voltage	Vdc	30	V
RMS Reverse Voltage	Vr(rms)	21	V
Power Dissipation	Pd	200	mW
Average Rectified Forward Current	Io	100	mA
Forward Continuous Current	If	200	mA
Repetitive Peak Forward Surge Current	Ifrm	300	mA
Forward Surge Current @t<1.0s	Ifsm	600	mA
Operating & torage Temp. Range	Tj/Ts	-65~+150	С
Max Forward Voltage	Vf	240 @ 0.1mA, 400 @ 10mA 500 @ 30mA, 800 @100mA	mV
Reverse Leakage Current	Ir	2	uA
Reverse Recovery Time @ If=10mA, Ir=10~1.0mA, RL=100ohm	Trr	5	nS
Typical Junction Capacitance Vr=1.0V, f=1.0MHz	Cj	10	pF
Thermal Resistance Junction to Ambient Air	Rthja	635	K/W

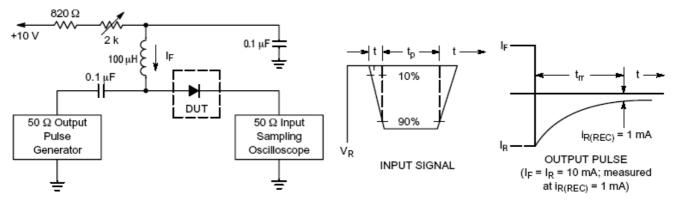
Note: 1 Valid provided that leads are kept at ambient temperature.

2. T<200us, duty cycle<2%



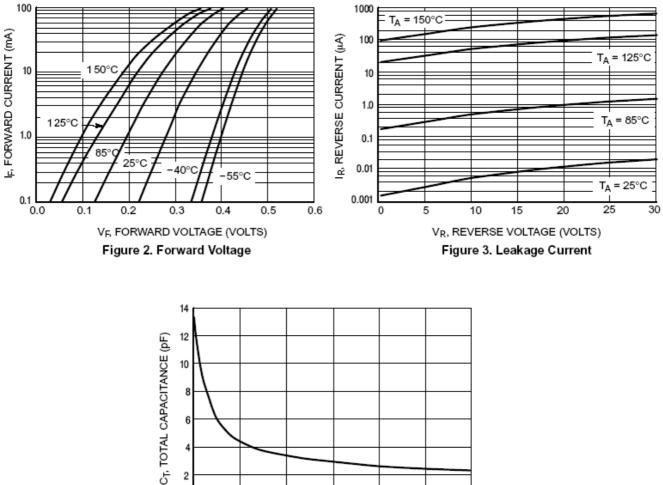
200mA SURFACE MOUNT SCHOTTKY BARRIER

## **Typical Characteristics**



Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I<sub>F</sub>) of 10 mA. 2. Input pulse is adjusted so IR(peak) is equal to 10 mA. 3. t<sub>p</sub> » t<sub>rr</sub>





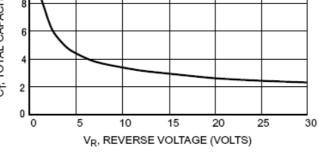


Figure 4. Total Capacitance