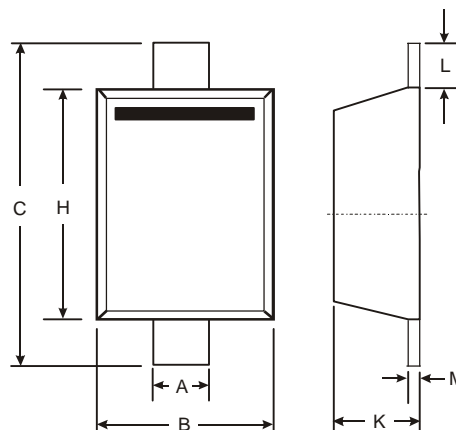


## Features

- High-Speed Switching Applications
- Lead Finish: 100% Matte Sn (Tin)
- Qualified Maximum Reflow Temperature: 260°C
- This is a Pb-Free Device



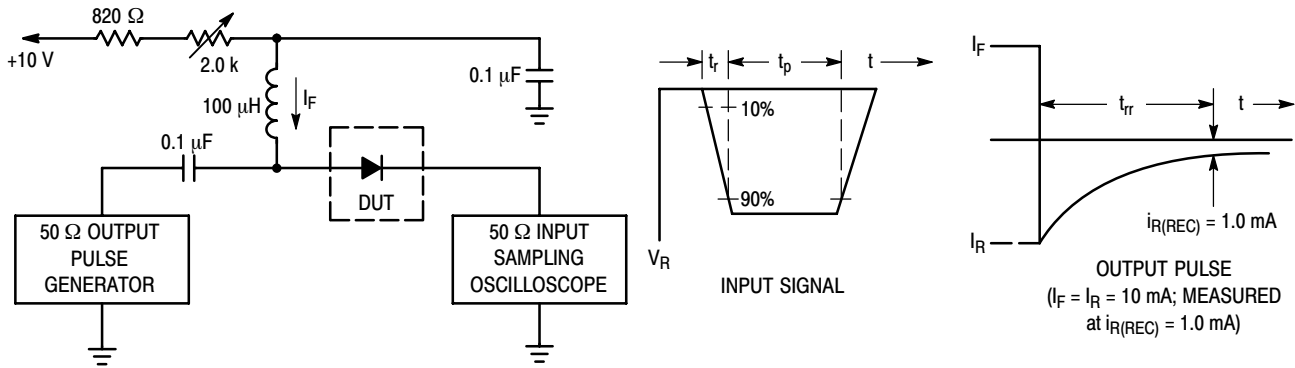
## Mechanical Data

- **Case:** SOD523 plastic case

SOD-523		
Dim	Min	Max
A	0.25	0.35
B	0.70	0.90
C	1.50	1.70
H	1.10	1.30
K	0.55	0.65
L	0.10	0.30
M	0.10	0.12
All Dimensions in mm		

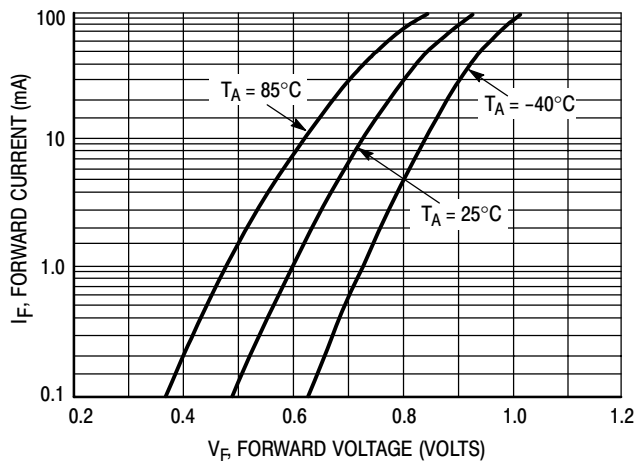
## Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Rating	Symbol	Max		Unit
Reverse Voltage	V <sub>R</sub>	100		V
Forward Current	I <sub>F</sub>	200		mAdc
Peak Forward Surge Current	I <sub>FM(surge)</sub>	500		mAdc
Characteristic	Symbol	Min	Max	Unit
Reverse Voltage Leakage Current (V <sub>R</sub> = 80 Vdc)	I <sub>R</sub>	–	0.1	μAdc
Diode Capacitance (V <sub>R</sub> = 0 V, f = 1.0 MHz)	C <sub>D</sub>	–	3.0	pF
Forward Voltage (I <sub>F</sub> = 100 mAdc)	V <sub>F</sub>	–	1.2	Vdc
Reverse Recovery Time (I <sub>F</sub> = I <sub>R</sub> = 10 mAdc)	t <sub>rr</sub>	–	4.0	ns

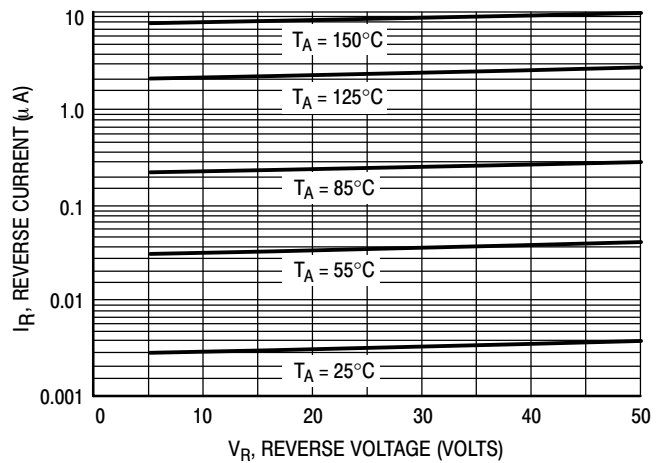


- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current ( $I_F$ ) of 10 mA.  
 2. Input pulse is adjusted so  $I_{R(\text{peak})}$  is equal to 10 mA.  
 3.  $t_p \gg t_{rr}$

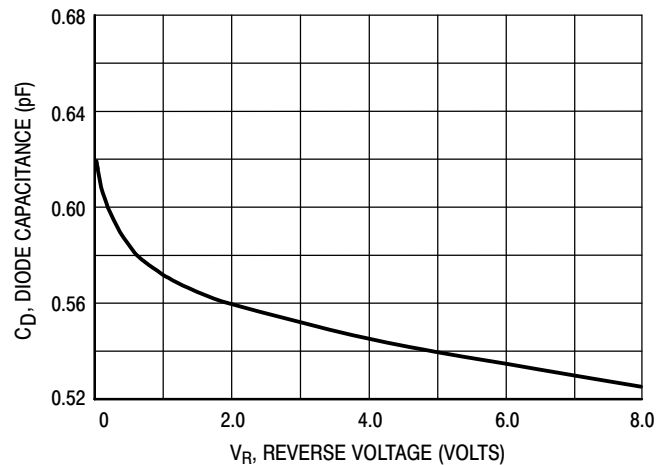
**Figure 1. Recovery Time Equivalent Test Circuit**



**Figure 2. Forward Voltage**



**Figure 3. Leakage Current**



**Figure 4. Capacitance**