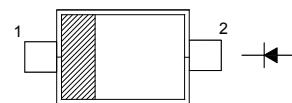


## Features

- Low Forward Voltage Drop
- Fast Switching

## PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View  
Simplified outline SOD-123 and symbol

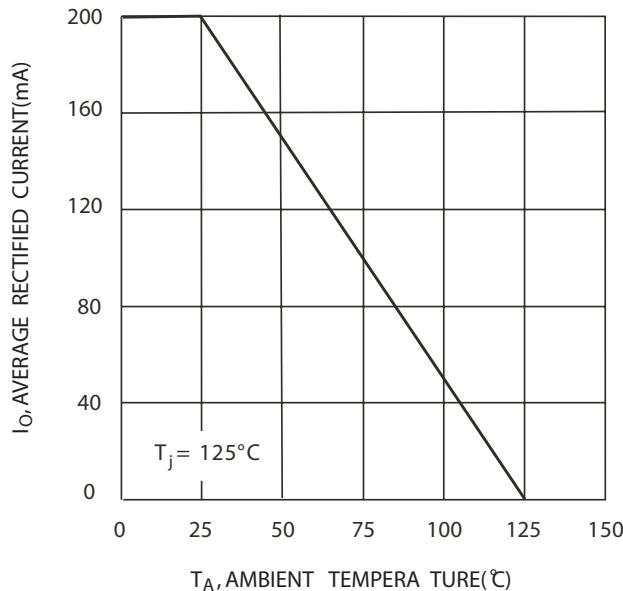
## Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Reverse Voltage	$V_R$	30	V
Forward Continuous Current	$I_{FM}$	200	mA
Repetitive Peak Forward Current at $t < 1 \text{ s}$	$I_{FRM}$	500	mA
Non-repetitive Peak Forward Surge Current at $t < 10 \text{ ms}$	$I_{FSM}$	2	A
Power Dissipation	$P_{tot}$	200	mW
Thermal Resistance Junction to Ambient	$R_{0,JA}$	500	°C/W
Operating and Storage Temperature Range	$T_J, T_{Stg}$	- 55 to + 125	°C

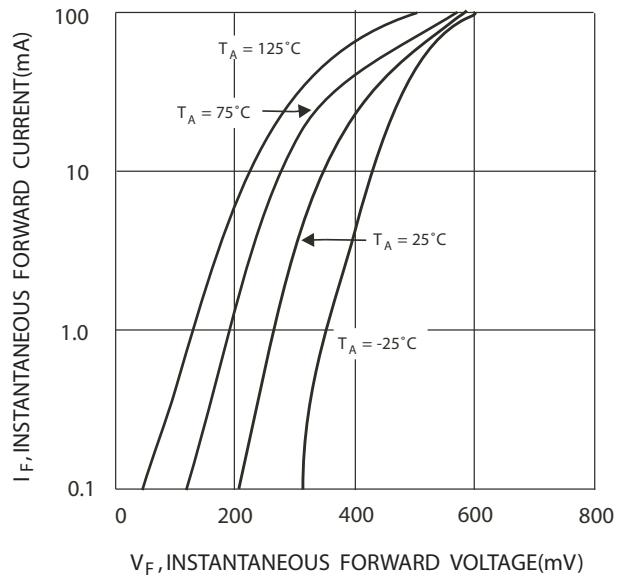
## Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	30	-	V
Reverse Current at $V_R = 25 \text{ V}$	$I_R$	-	500	nA
Forward Voltage at $I_F = 200 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 2 \text{ mA}$ at $I_F = 15 \text{ mA}$	$V_F$	- - - 0.26 -	1 0.4 0.65 0.33 0.45	V
Total Capacitance at $V_R = 1 \text{ V}, f = 1 \text{ MHz}$	$C_T$	-	10	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$	$t_{rr}$	-	5	ns

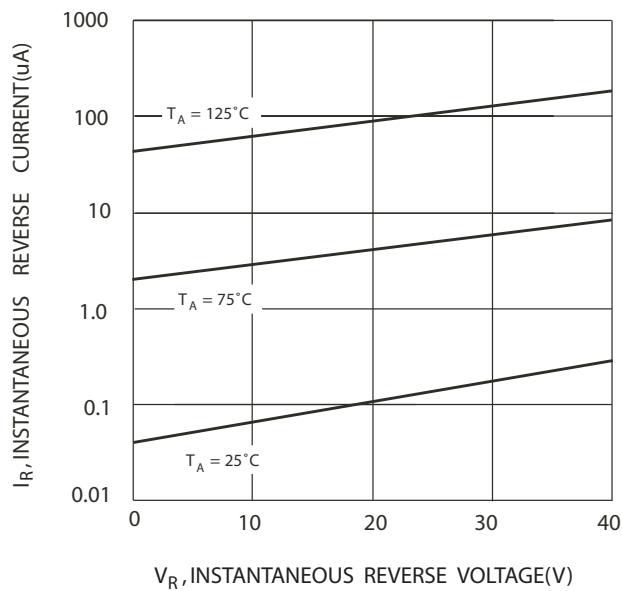
### Typical Characteristics



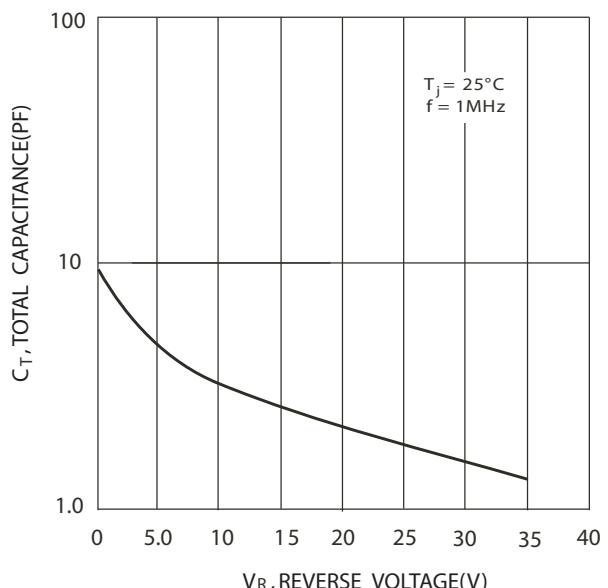
**FIG. 1 Forward Current Derating Curve**



**FIG. 2 Typical Forward Characteristics**



**FIG. 3 Typical Reverse Characteristics**

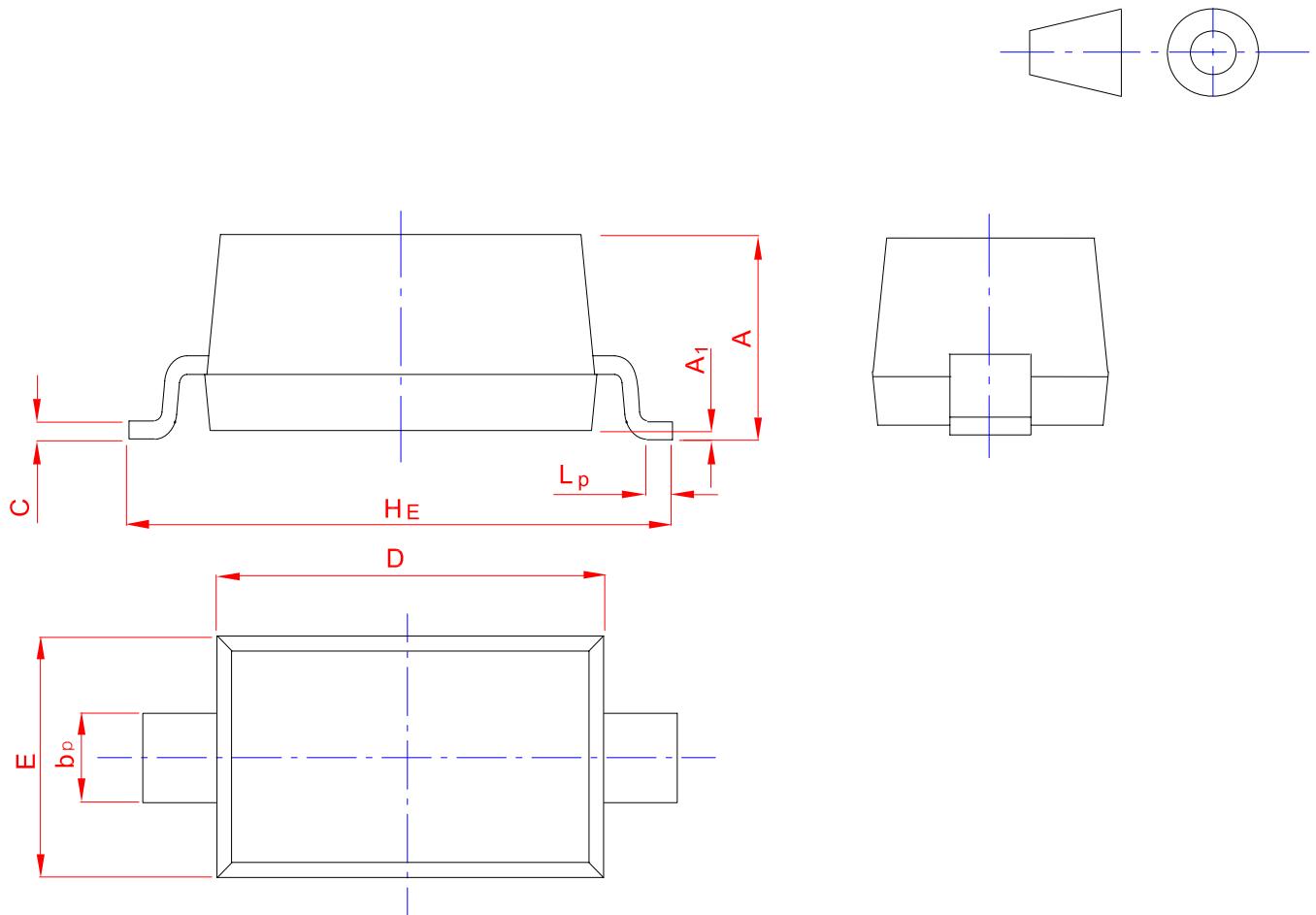


**FIG. 4 Total Capacitance vs. Reverse Voltage**

## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	A <sub>1</sub>	L <sub>p</sub>
mm	1.20 0.90	0.60 0.50	0.135 0.100	2.75 2.55	1.65 1.55	3.85 3.55	0.10 0.01	0.50 0.20