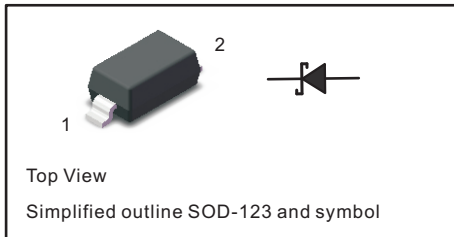


**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode


**Features**

- ◆ Low forward voltage

**Applications**

- ◆ Ultra high-speed switching
- ◆ Voltage clamping
- ◆ Protection circuits

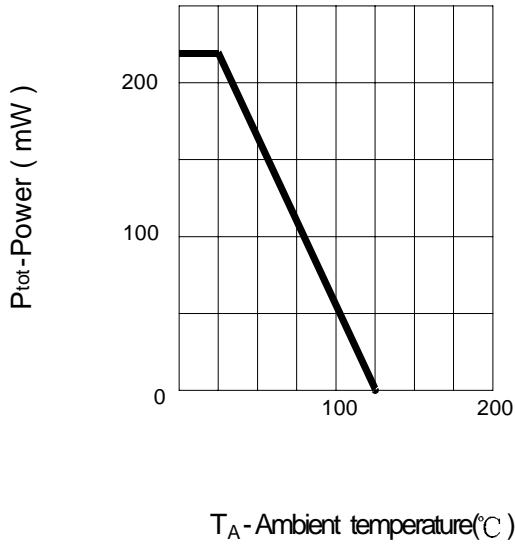
**Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )**

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	V
Forward Current	$I_F$	200	mA
Repetitive Peak Forward Current	$I_{FRM}$	300	mA
Peak Forward Surge Current ( $t_p = 10\text{ ms}$ )	$I_{FSM}$	600	mA
Power Dissipation	$P_D$	230	mW
Thermal Resistance from Junction Ambient	$R_{thJA}$	435	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 150	$^\circ\text{C}$

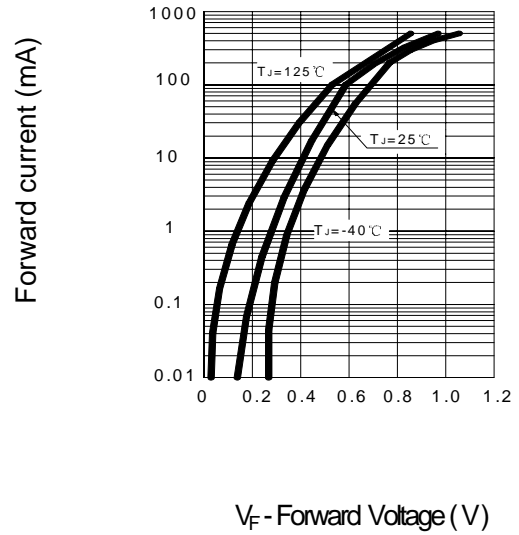
**Characteristics at  $T_a = 25\text{ }^\circ\text{C}$** 

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1\text{ mA}$ at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 30\text{ mA}$ at $I_F = 100\text{ mA}$	$V_F$	240 320 400 500 800	mV
Reverse Current at $V_R = 25\text{ V}$	$I_R$	2	$\mu\text{A}$
Total Capacitance at $V_R = 1\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	10	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$ , $V_R = 6\text{ V}$ , $I_R = 10\text{ mA}$ , $R_L = 100\ \Omega$	$t_{rr}$	6	ns

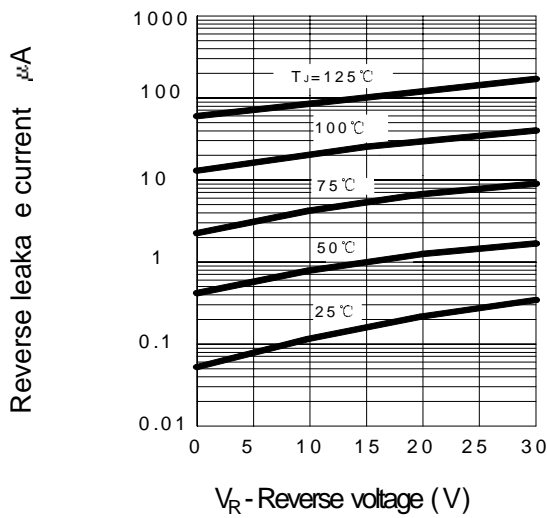
**Typical Characteristics**



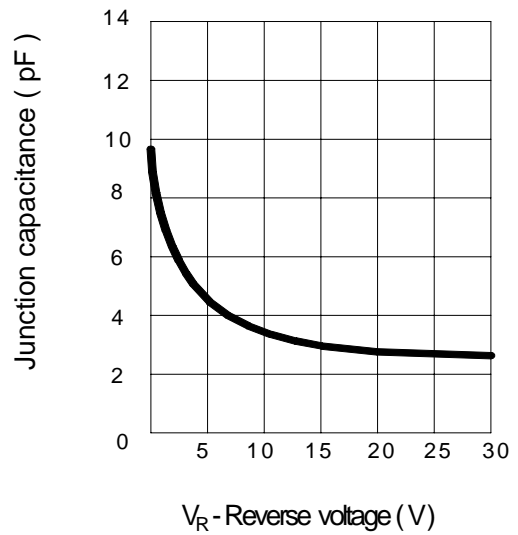
**FIG.1- ADMISSIBLE POWER DISSIPATION VS. AMBIENT TEMPERATURE**



**FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 3 - TYPICAL REVERSE CHARACTERISTICS**



**FIG.4 - TYPICAL JUNCTION CAPACITANCE**

**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-123

