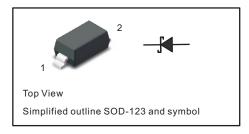


PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Features

- Very low forward voltage
- High Current Capability

Absolute Maximum Ratings ($T_a = 25$ °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RRM}	20	V
Working Peak Reverse Voltage	V_{RWM}	20	V
DC Reverse Voltage	V _R	20	V
Average Rectified Forward Current	I _{F(AV)}	0.5	Α
Non-Repetitive Peak Forward Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	5.5	Α
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	340	°C/W
Thermal Resistance Junction to Lead	R _{eJL}	150	°C/W
Junction Temperature	T _j	125	°C
Storage Temperature	T _{stg}	- 65 to + 150	°C

¹⁾ Following any rated load condition and with rated V_{RRM} applied.

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1$ A, $T_j = 25$ °C at $I_F = 0.5$ A, $T_j = 25$ °C at $I_F = 0.1$ A, $T_j = 100$ °C at $I_F = 0.5$ A, $T_j = 100$ °C	V _F	0.375 0.44 0.26 0.36	V
Reverse Current at $V_R = 10 \text{ V}$, $T_j = 25 ^{\circ}\text{C}$ at $V_R = 20 \text{ V}$, $T_j = 25 ^{\circ}\text{C}$ at $V_R = 10 \text{ V}$, $T_j = 100 ^{\circ}\text{C}$ at $V_R = 20 \text{ V}$, $T_j = 100 ^{\circ}\text{C}$	I _R	40 150 3 7	μΑ μΑ mA mA
Total Capacitance at $V_R = 5 \text{ V}$ (test signal range 100 KHz to 1 MHz), $T_j = 25 ^{\circ}\text{C}$	C _{tot}	110	pF

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Typical Characteristics

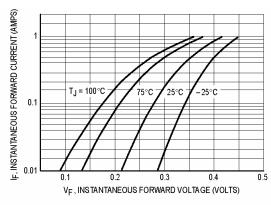


Figure 1. Typical Forward Voltage

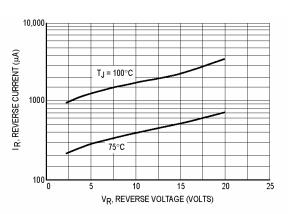


Figure 2. Typical Reverse Current

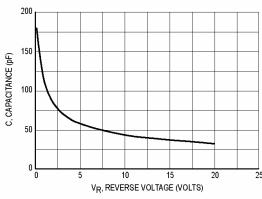


Figure 3. Typical Capacitance

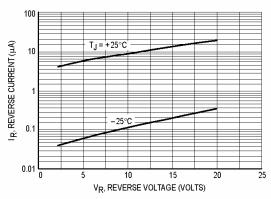


Figure 4. Typical Reverse Current

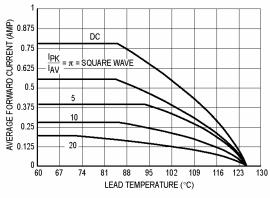


Figure 5. Current Derating (Lead)

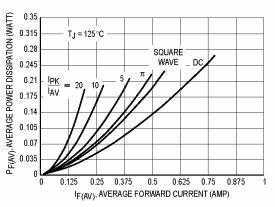


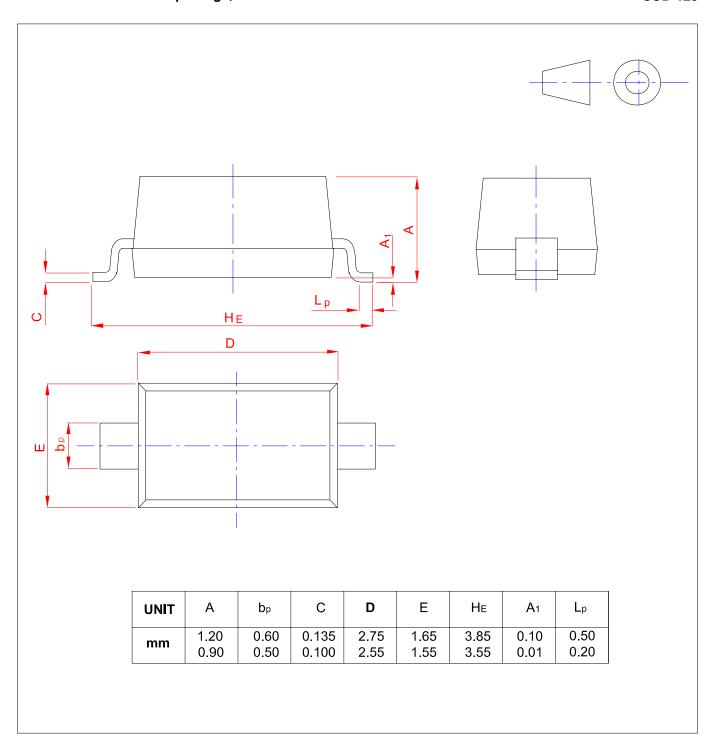
Figure 6. Power Dissipation



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



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