

Features

- Ultra low V_f
- Low capacitance for reduced insertion losses
- Reverse voltage rating of 30V

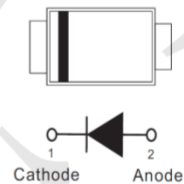
APPLICATIONS

- Mobile phones and accessories
- Hand-held computers
- High speed switching applications

SOD323



PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS $T_J=25^\circ\text{C}$ unless otherwise noted

Rating	Symbol	Value	Units
Peak Reverse Voltage $I_R=500\mu\text{A}$	V_{RM}	30	V
Continuous Reverse Voltage	V_R	20	V
Average Rectified Forward Current	$I_{F(AV)}$	500	mA
Non-repetitive Peak Forward Current, 60Hz Half Sine-Wave	I_{FSM}	5	A
Total Power Dissipation (Note1)	P_{TOT}	200	mW
Operating Junction Temperature Range	T_J	-55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to + 150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Units
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS $T_J=25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Forward Voltage (Note 2)	V_F	$I_F=100\text{mA}$ $I_F=500\text{mA}$	-	-	0.36 0.47	V
Reverse Leakage Current	I_R	$V_R=20\text{V}$	-	-	100	μA
Total Capacitance	C_T	0Vdc Bias, $f = 1\text{MHz}$ 10Vdc Bias, $f = 1\text{MHz}$	-	-	85 20	pF

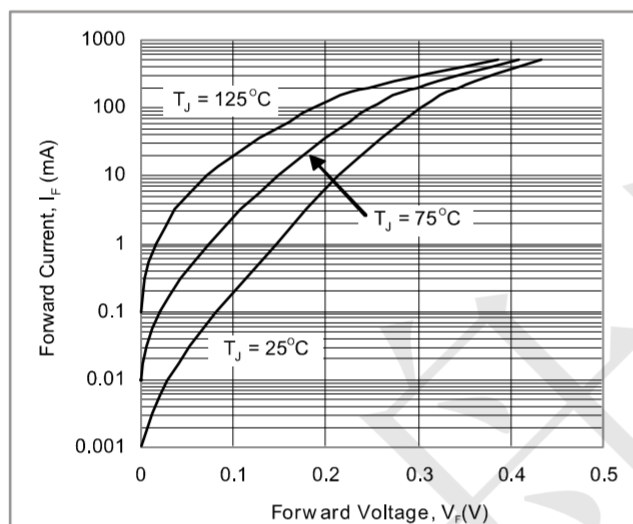


Fig. 1. Typical Forward Characteristics

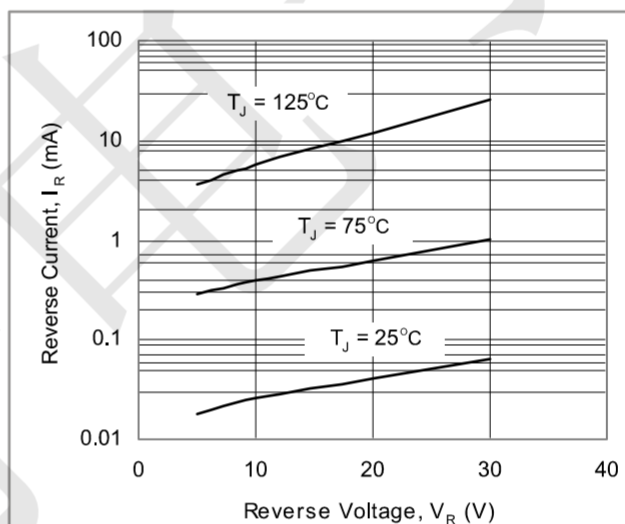


Fig. 2. Typical Reverse Characteristics

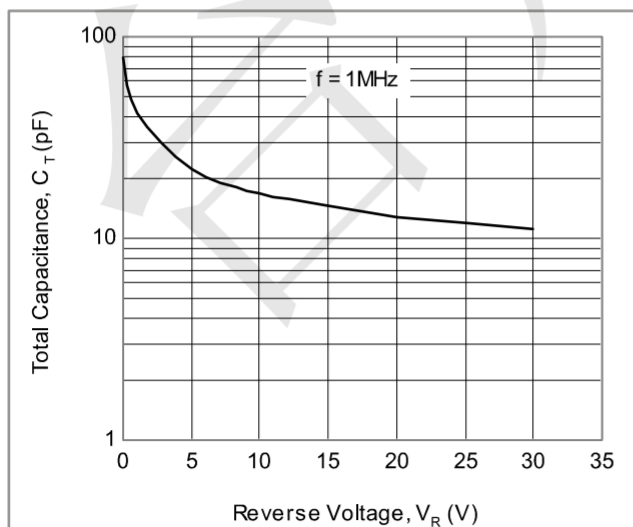


Fig. 3. Typical Capacitance

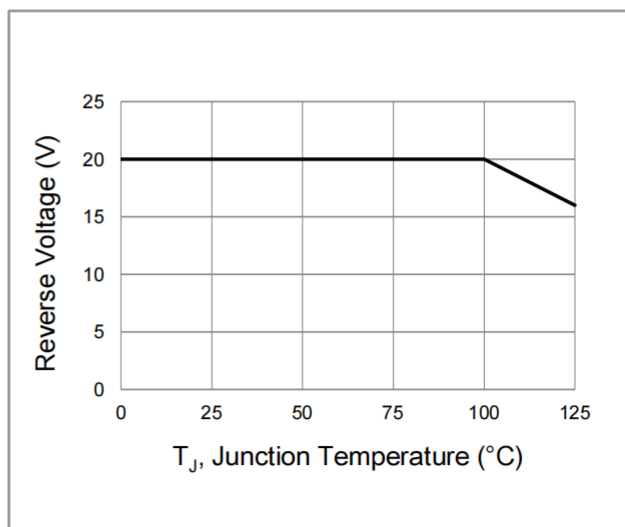
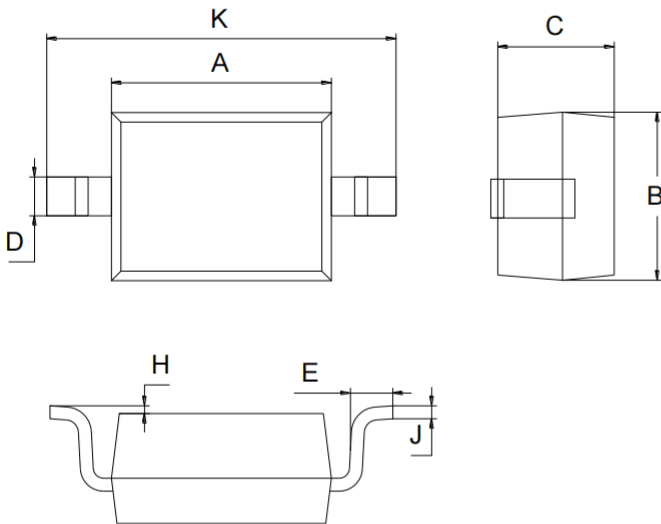


Fig. 4. Operating Temperature Derating Curve

Outline Drawing - SOD323 (unit: mm)



SOD-323		
Dimension	Min.	Max.
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

Mounting Pad Layout-SOD323 (unit: mm)

