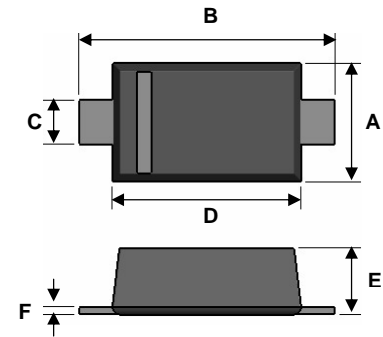


### FEATURES

- Surface Mounted Device
- Fast Switching Speed
- Moisture sensitivity level (MSL): 1
- Pb free and RoHS compliant

Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.15	1.35	0.045	0.053
B	2.30	2.70	0.091	0.106
C	0.25	0.40	0.010	0.016
D	1.60	1.80	0.063	0.071
E	0.80	1.00	0.031	0.039
F	0.05	0.20	0.002	0.008



**SOD-323**

### MECHANICAL DATA

- Case: Bend lead SOD-323 package
- High temperature soldering guaranteed: 260°C/10s
- Marking: T4

### Maximum Ratings and Electrical Characteristics

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Peak reverse voltage	V <sub>RM</sub>	100	V
DC blocking voltage	V <sub>R</sub>	75	V
Non-repetitive peak forward current	I <sub>FM</sub>	300	mA
Average rectified output current	I <sub>O</sub>	150	mA
Peak forward surge current @t=1μs	I <sub>FSM</sub>	2.0	A
Power dissipation	P <sub>D</sub>	200	mW
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>STG</sub>	- 55 to +150	°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Forward voltage	V <sub>F1</sub>	I <sub>F</sub> = 1mA			0.715	V
	V <sub>F2</sub>	I <sub>F</sub> = 10mA			0.885	V
	V <sub>F3</sub>	I <sub>F</sub> = 50mA			1	V
	V <sub>F4</sub>	I <sub>F</sub> = 150mA			1.25	V
Reverse leakage current	I <sub>R1</sub>	V <sub>R</sub> =75V			1	μA
	I <sub>R2</sub>	V <sub>R</sub> =20V			25	nA
Capacitance between terminals	C <sub>T</sub>	V <sub>R</sub> =0V, f=1MHz			2	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1 · I <sub>R</sub> , R <sub>L</sub> =100Ω			4.0	ns

RATINGS AND CHARACTERISTICS CURVES

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Fig. 1 Typical Reverse Characteristics

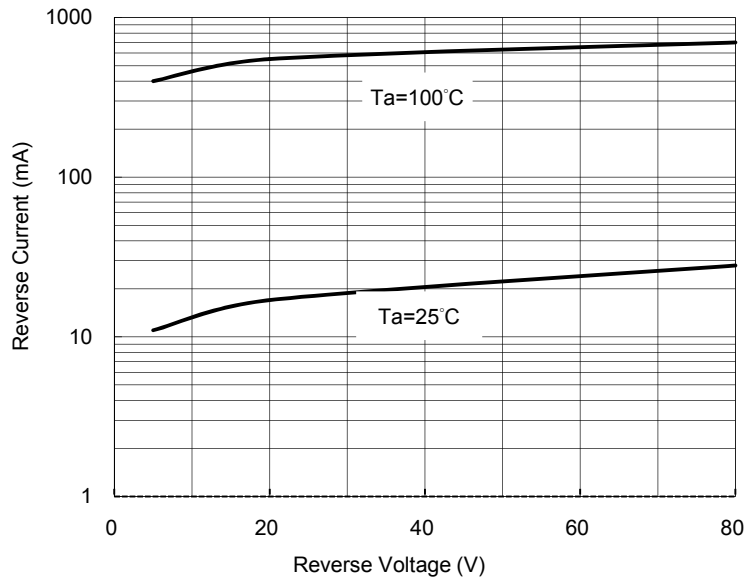


Fig.2 Typical Forward Characteristics

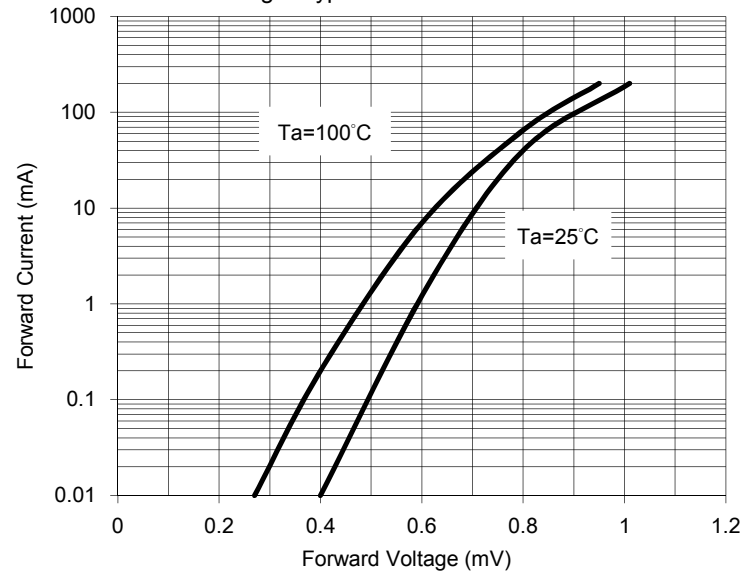


Fig. 3 Power Derating Curve

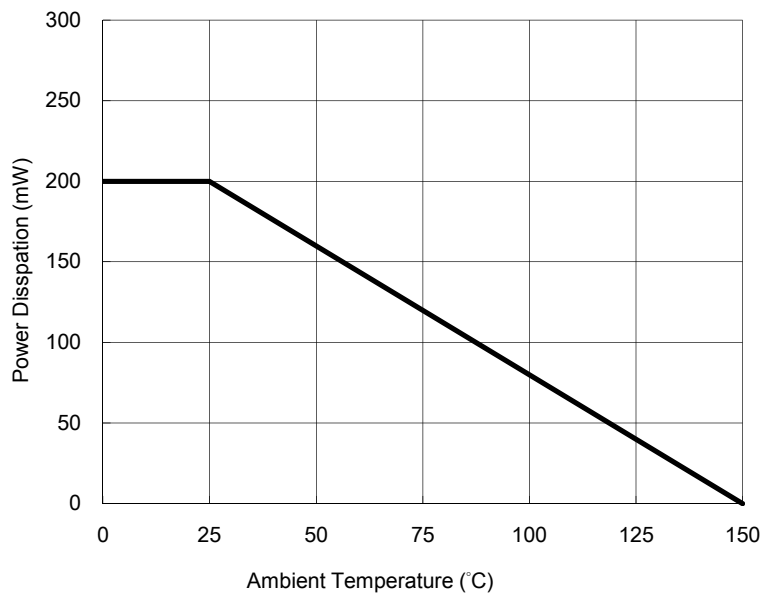


Fig. 4 Typical Capacitance Characteristics

