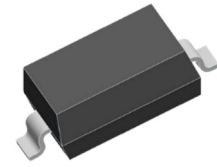
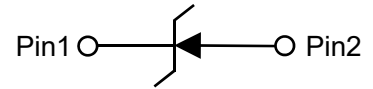
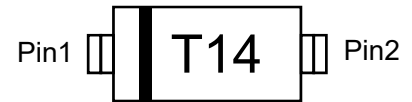


**Feature**

- Low Capacitance (<25pF)
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time


**SOD-323(Top View)**
**Mechanical Characteristics**

- Case: SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz


**Circuit Diagram**

**Marking (Top View)**
**Absolute maximum rating@25°C**

Rating	Symbol	Value	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
RMS reverse voltage	$V_{RMS}$	28	V
Working Peak Reverse Voltage	$V_{DC}$	40	V
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	$I_{FSM}$	13	A
Forward Current	$I_o$	1	A
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Junction temperature	$T_J$	125	°C
Storage temperature	$T_{stg}$	-55 ~ +150	°C

**Electrical characteristics per line@25°C (unless otherwise specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward voltage	$V_F$	$I_F = 500 \text{ mA}$	-	0.65	0.75	V
Reverse current	$I_R$	$V_R = 40\text{V}$	-	-	20	$\mu\text{A}$
Junction Capacitance	$C_J$	$V_R = 0\text{V}, f = 1\text{MHz}$	-	20	25	pF

## Typical Characteristics

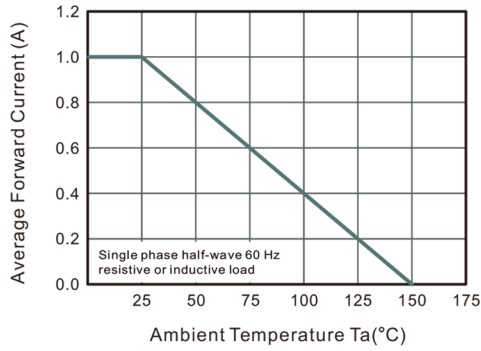


Fig.1 Forward Current Derating Curve

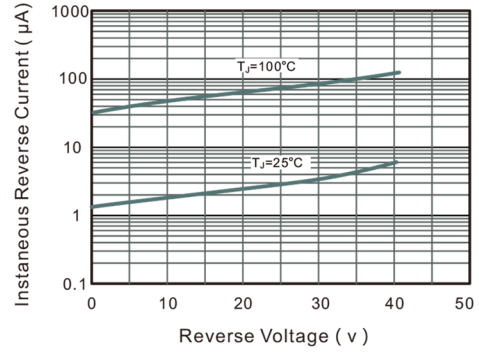


Fig.2 Typical Reverse Characteristics

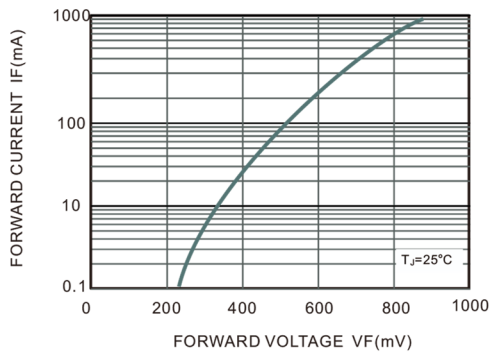


Fig.3 Forward Characteristics

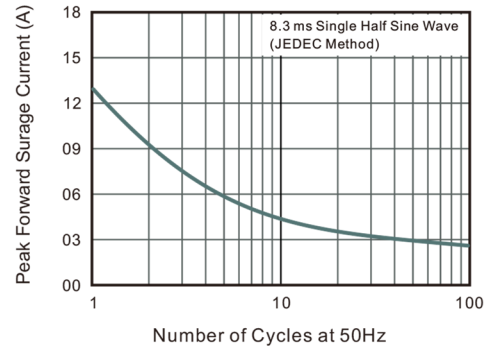


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

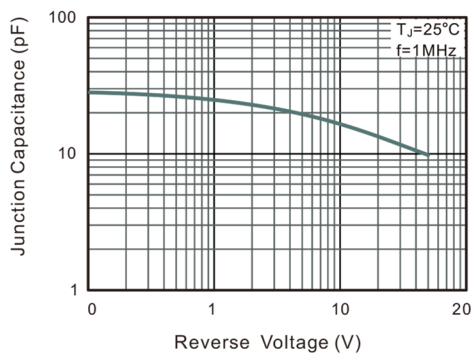


Fig.5 Typical Junction Capacitance

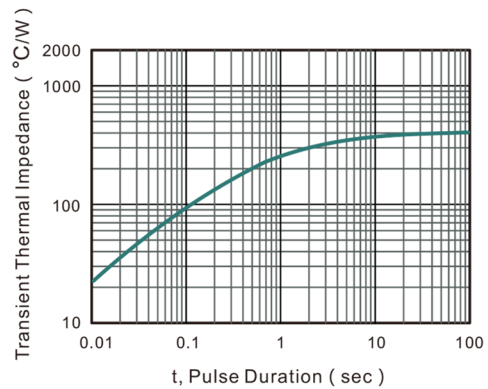
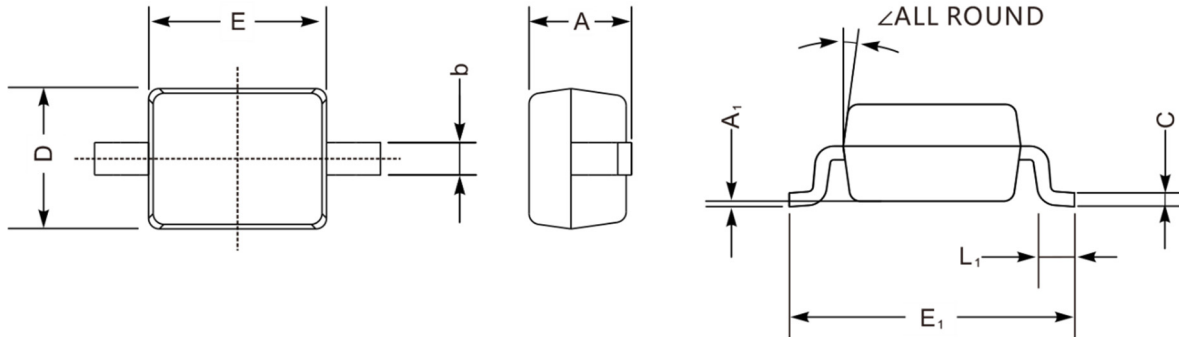
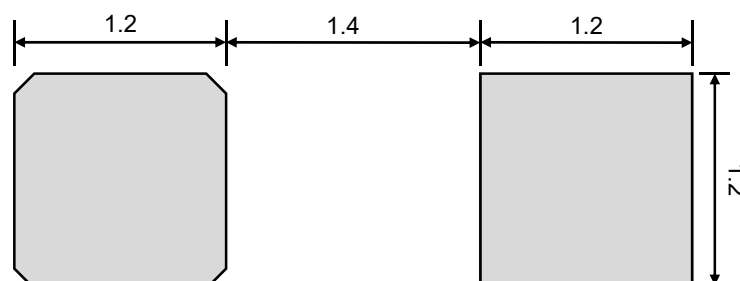


Fig.6 Typical Transient Thermal Impedance

## Product dimension (SOD-323)

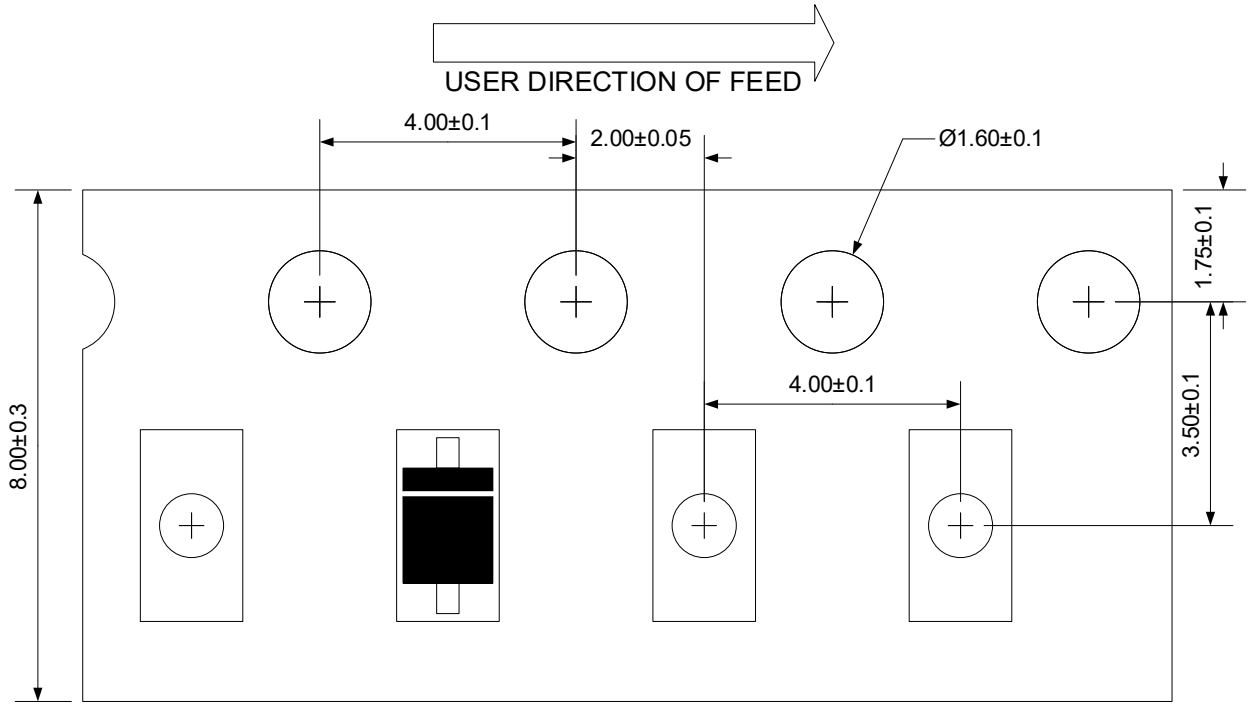


Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	0.80	1.10	0.031	0.043
A1	-	0.20	-	0.008
C	0.08	0.15	0.003	0.006
D	1.20	1.40	0.047	0.055
E	1.40	1.80	0.055	0.071
E1	2.55	2.75	0.100	0.108
b	0.25	0.40	0.010	0.016
L1	0.20	0.45	0.008	0.018
∠	9°		9°	




Suggested PCB Layout

Unit:mm



Unit:mm


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