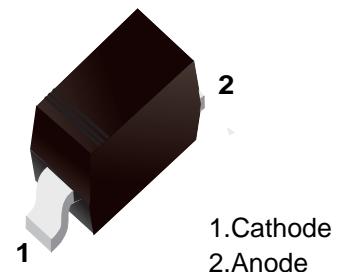


**Fast switching Diode****■ Features**

- Fast Switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- For General Purpose Switching Applications
- High Conductance

**■ Simplified outline(SOD-323)****■ APPLICATIONS**

- Surface mount fast switching diode

**Top View** **■ MARKING**

Marking	T5
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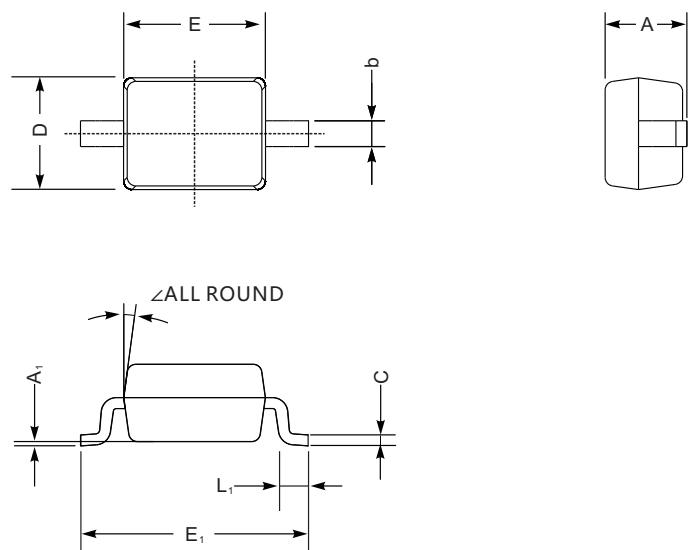
**■ MAXIMUM RATING @ Ta=25°C unless otherwise specified**

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Reverse Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
Forward Continuous Current	I <sub>FM</sub>	500	mA
Average Rectified Output Current	I <sub>o</sub>	250	mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μs @t=1.0 s	I <sub>FSM</sub>	4.0 2.0	A
Power Dissipation	P <sub>d</sub>	200	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	625	°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150	°C

**■ ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	75	-	V	I <sub>R</sub> =1.0μA
Forward Voltage	V <sub>F</sub>	0.62	0.72 0.855 1.0 1.25	V	I <sub>F</sub> =5mA I <sub>F</sub> =10mA I <sub>F</sub> =100mA I <sub>F</sub> =150mA
Reverse Current	I <sub>R</sub>	-	2.5 25	μA nA	V <sub>R</sub> =75V V <sub>R</sub> =20V
Capacitance between terminals	C <sub>T</sub>	-	4.0	pF	V <sub>R</sub> =0,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	-	4.0	ns	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1×I <sub>R</sub> , R <sub>L</sub> =100Ω

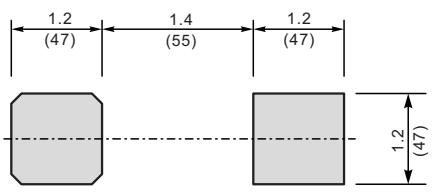
## ■ SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E <sub>1</sub>	b	L <sub>1</sub>	A <sub>1</sub>	<
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	9°
	min	32	3.1	47	63	100	9.8	7.9	—	

## ■ The recommended mounting pad size

Unit:  $\frac{\text{mm}}{(\text{mil})}$