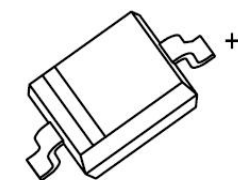


<b>SWITCHING DIODE</b>	<b>SOD-323 Plastic-Encapsulate Diodes</b>
<p><u>SOD-323</u></p>  <p>Marking :A6</p>	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Very Small Plastic Package</li> <li>• High Switching Speed</li> </ul> <p><b>Application</b></p> <ul style="list-style-type: none"> <li>• High-Speed Switching in e.g. Surface Mounted Circuits</li> </ul>

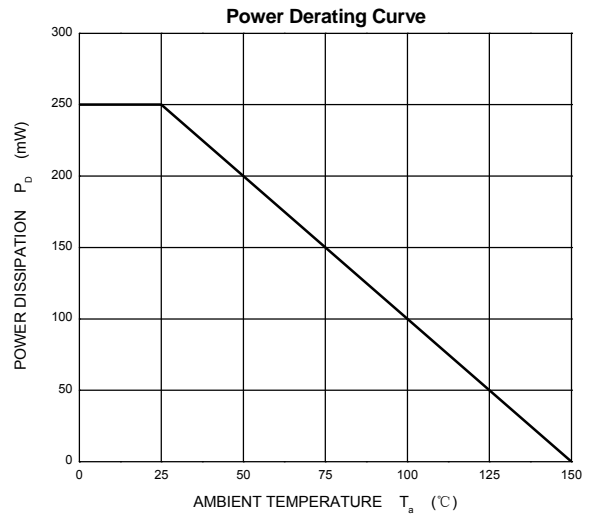
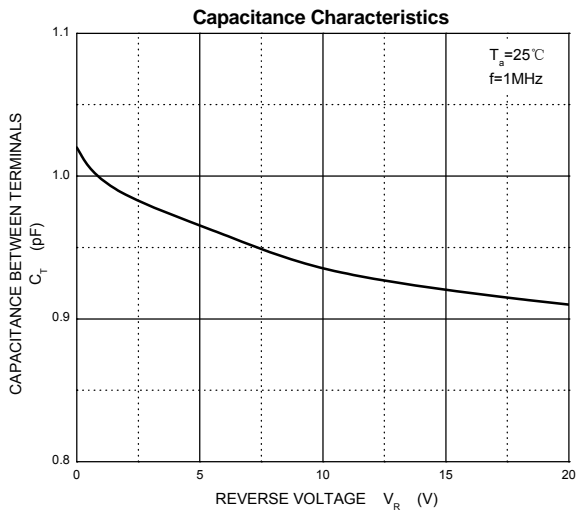
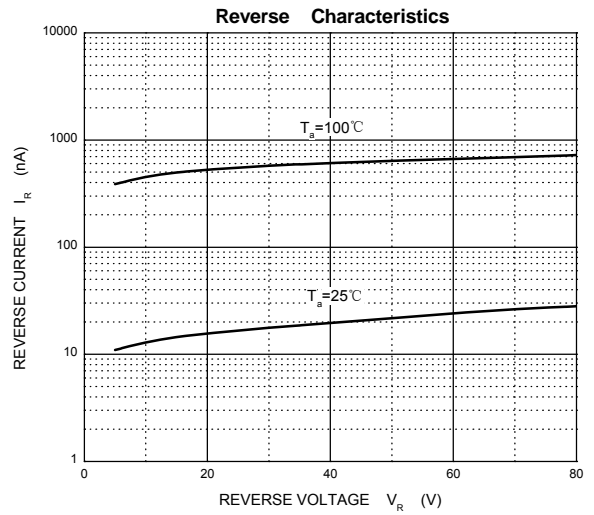
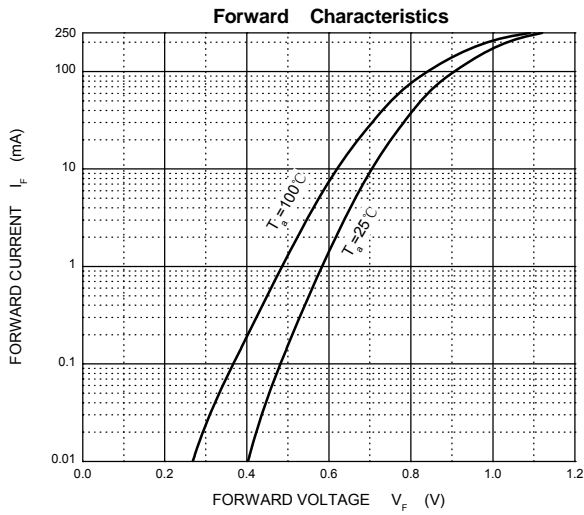
**MAXIMUM RATINGS ( T<sub>a</sub>=25°C unless otherwise noted )**

Symbol	Parameter	Value	Unit
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	85	V
V <sub>R</sub>	DC Blocking Voltage	75	
I <sub>O</sub>	Continuous Forward Current	250	mA
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current @ t = 8.3 ms	2.0	A
P <sub>D</sub>	Power Dissipation	250	mW
R <sub>θJA</sub>	Thermal Resistance from Junction to Ambient	500	°C/W
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55~+150	°C

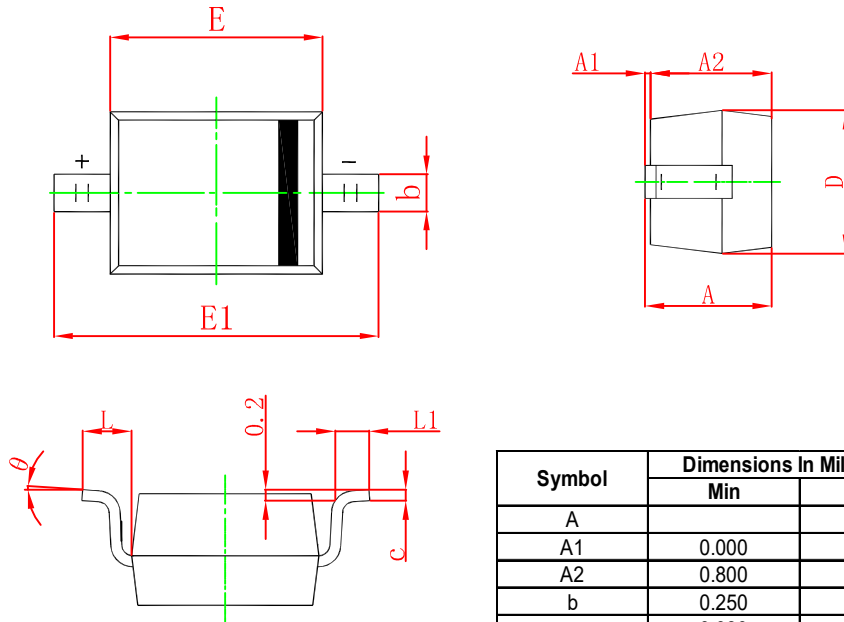
**ELECTRICAL CHARACTERISTICS(T<sub>a</sub>=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA	100			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =25V			30	nA
		V <sub>R</sub> =75V			1	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =1mA			0.715	V
		I <sub>F</sub> =10mA			0.855	
		I <sub>F</sub> =50mA			1	
		I <sub>F</sub> =150mA			1.25	
Total capacitance	C <sub>tot</sub>	V <sub>R</sub> =0V, f=1MHz			1.5	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>			4	ns

**Typical Characteristics**

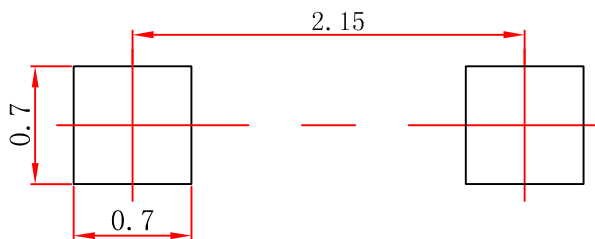


**SOD-323 Package Outline Dimensions**



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

**SOD-323 Suggested Pad Layout**



**Note:**

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.