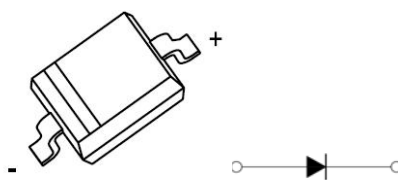
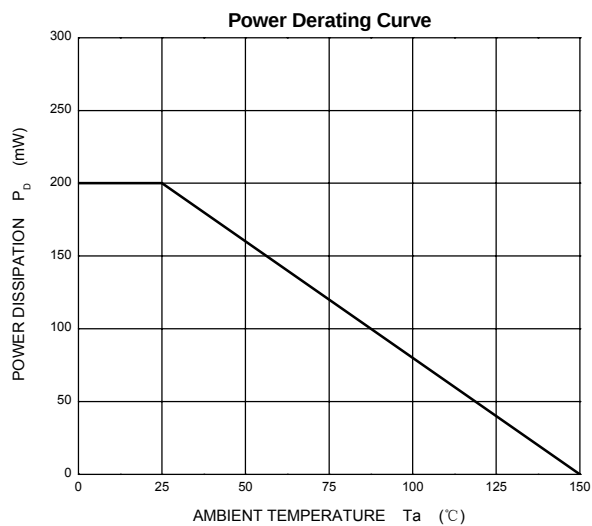
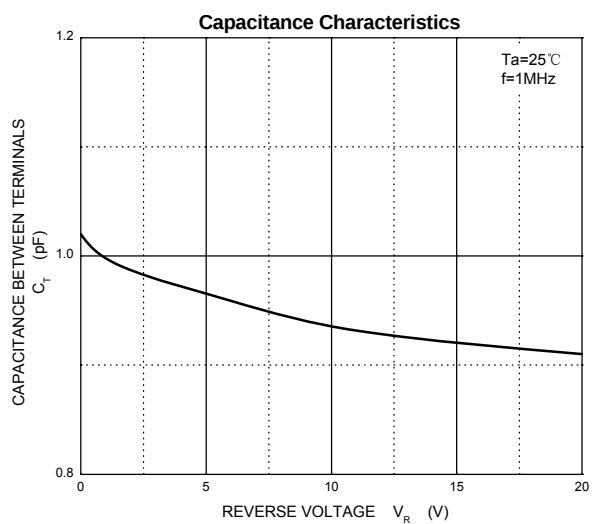
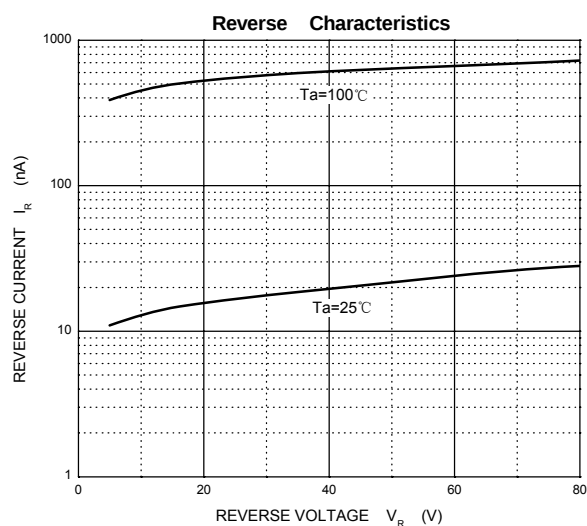
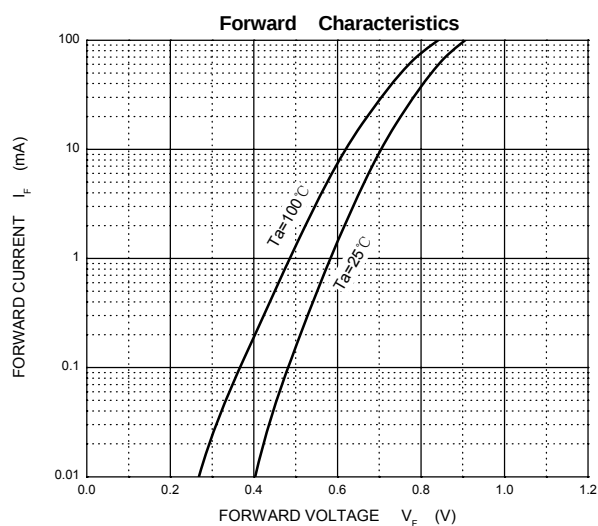


FAST SWITCHING DIODE		SOD-323 Plastic-Encapsulate Diodes				
SOD-323  Marking :A		Features ● Small surface mounting type ● High speed ● High reliability with high surge current handling capability				
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C						
Parameter		Symbol		Limit		Unit
Non-repetitive peak reverse voltage		V _{RM}		90		V
DC blocking voltage		V _R		80		V
Peak forward current		I _{FM}		225		mA
Average rectified output current		I _O		100		mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms		I _{FSM}		2.0		A
Power Dissipation		P _D		200		mW
Thermal Resistance from Junction to Ambient		R _{θJA}		625		°C/W
Operation Junction and Storage Temperature Range		T _J , T _{STG}		-55~+150		°C
Electrical Ratings @Ta=25°C						
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V _F			1.2	V	I _F =100mA
Reverse current	I _R			0.1	μA	V _R =80V
Capacitance between terminals	C _T			3	pF	V _R =0.5V,f=1MHz
Reverse recovery time	t _{rr}			4	ns	I _F =10mA , V _R =6V,R _L =100Ω

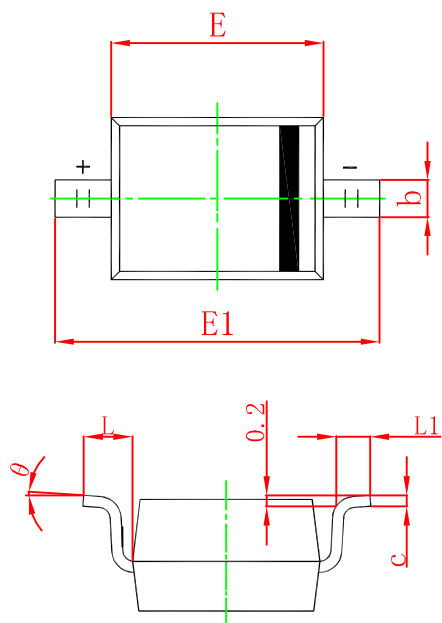
Typical Characteristics



CHANGJING ELEC.TECH.

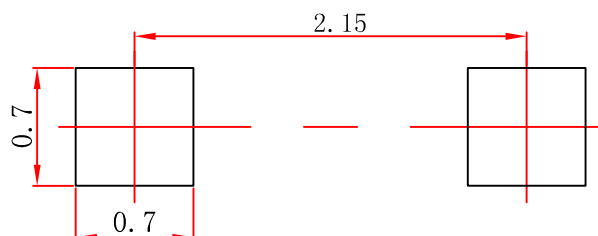
PACKAGE OUTLINE AND PAD LAYOUT INFORMATION

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.