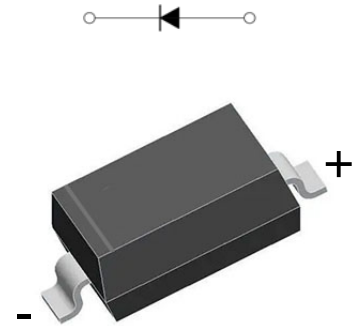


SOD-323 Plastic-Encapsulate Diodes

• Features

- Small surface mounting type
- High speed
- High reliability with high surge current handling capability



SOD-323

• MAXIMUM RATINGS (T_C=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

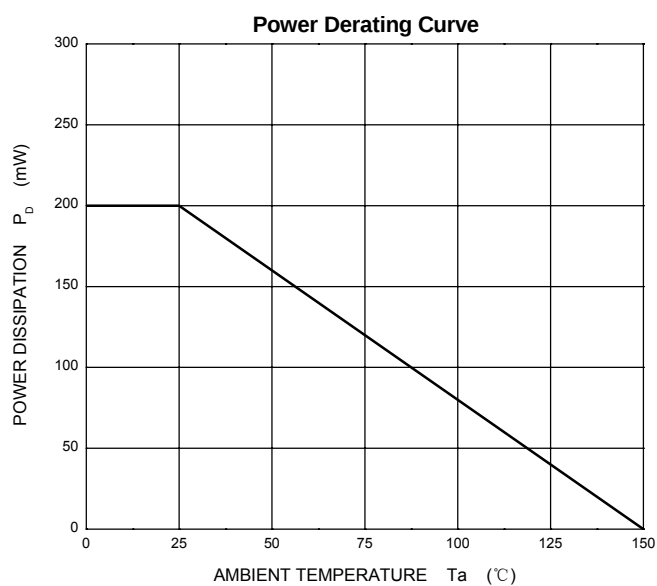
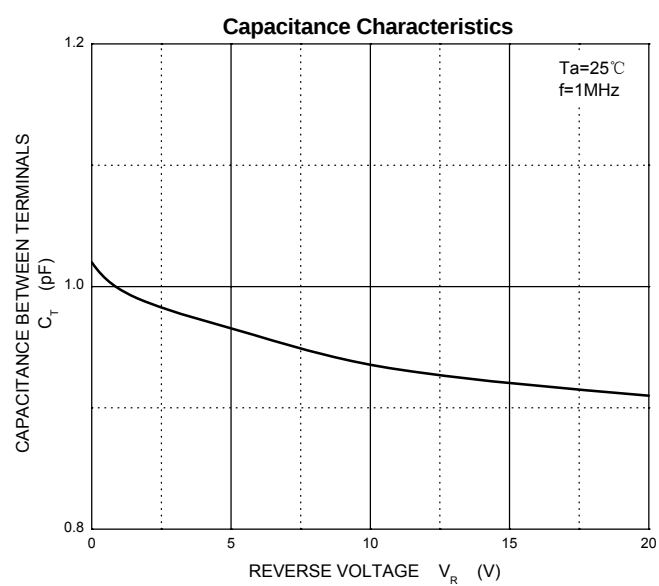
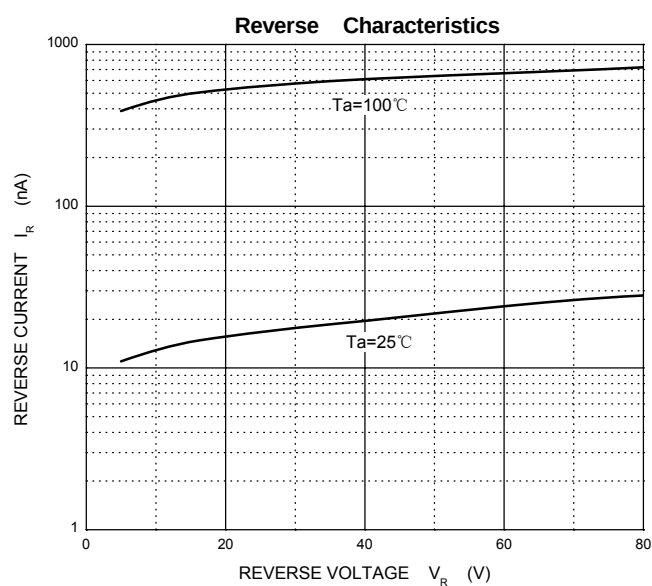
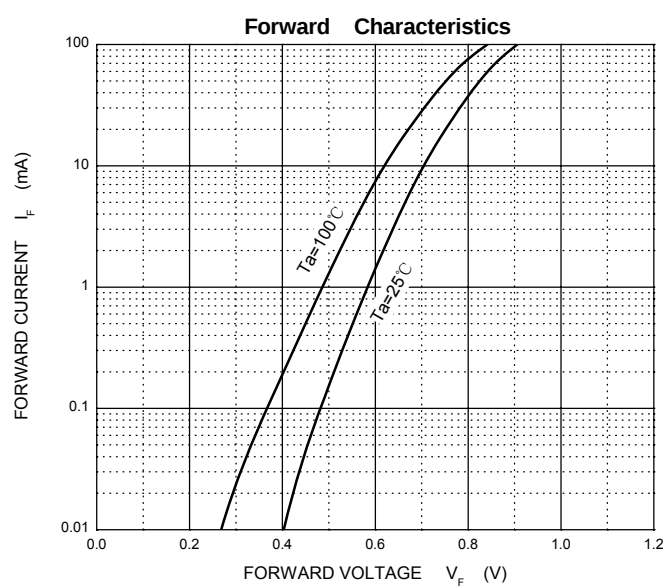
• ELECTRICAL CHARACTERISTICS (T_a=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F =100mA			1.2	V
Reverse current	I _R	V _R =80V			0.1	μA
Capacitance between terminals	C _T	V _R =0.5V, f=1MHz			3	pF
Reverse recovery time	t _{rr}	I _F =10mA, V _R =6V, R _L =100Ω			4	ns

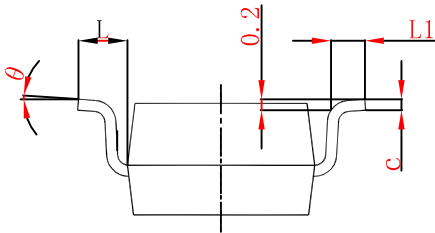
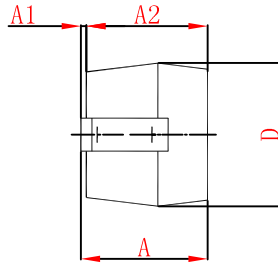
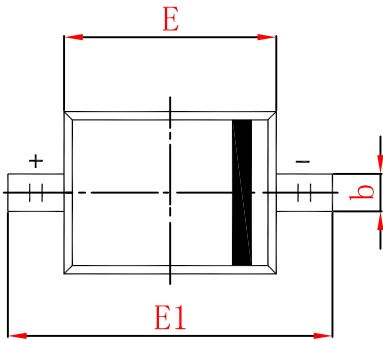
• Ordering Information:

Part NO.	1SS355
Marking	A
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

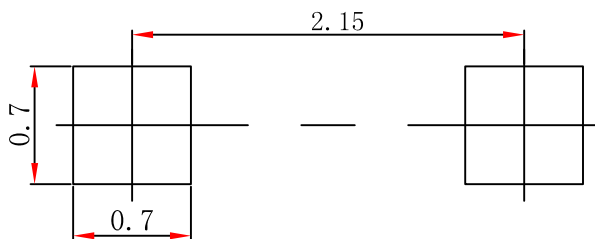
• Typical Characteristics



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°



Note:

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