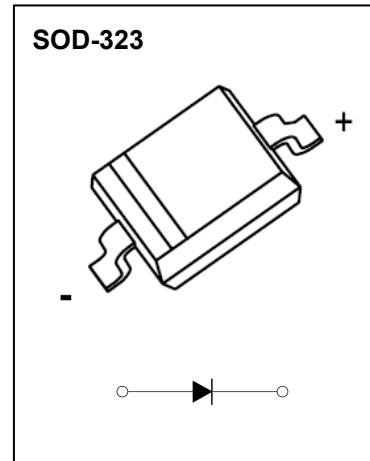
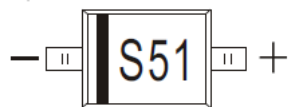


SCHOTTKY BARRIER DIODE

FEATURES

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

MARKING:S51



Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

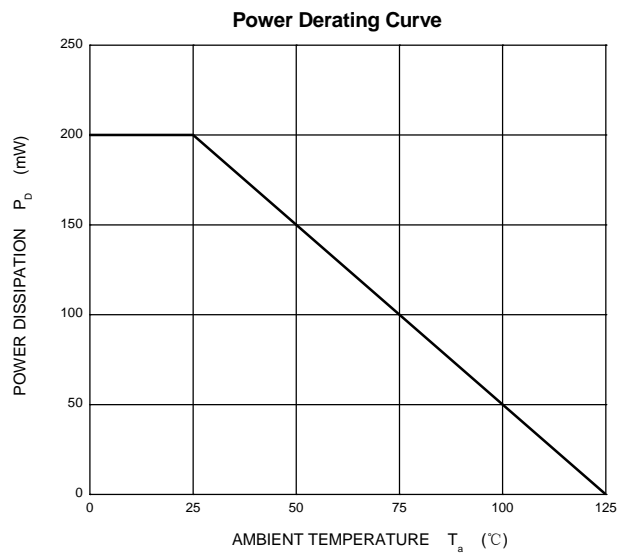
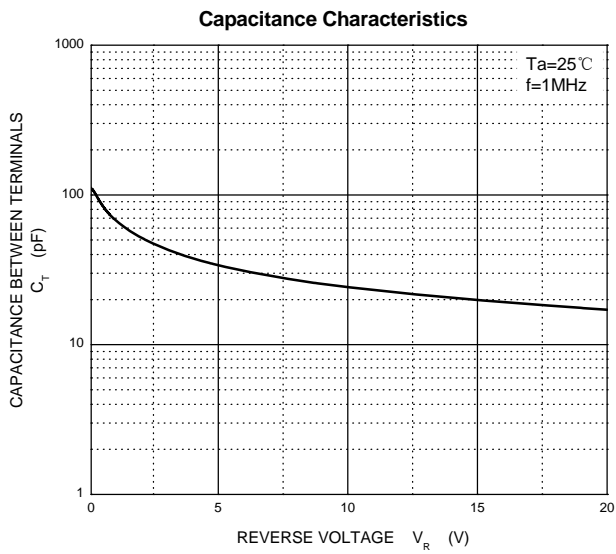
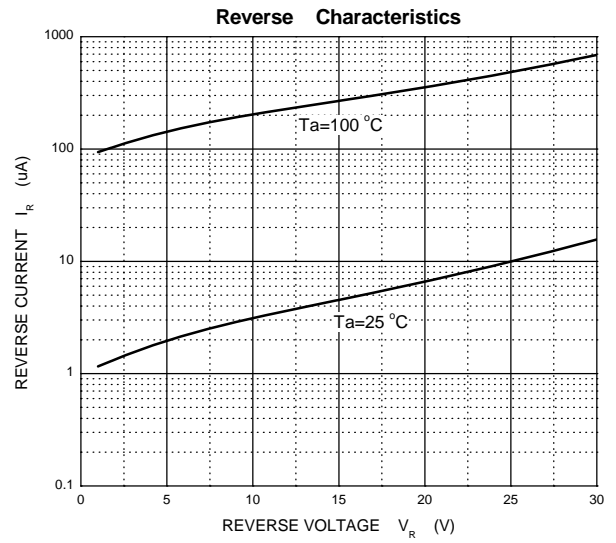
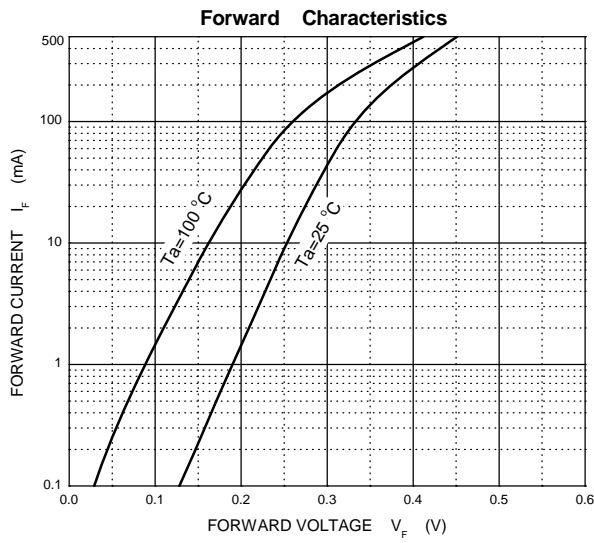
Parameter	Symbol	Limit	Unit
Peak reverse voltage	V _{RM}	25	V
DC reverse voltage	V _R	20	V
Average rectified output current	I _O	300	mA
Peak forward current	I _{FM}	700	mA
Power dissipation	P _D	200	mW
Thermal resistance junction to ambient	R _{θJA}	500	°C/W
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55~+150	°C

Electrical Ratings @T_A=25°C

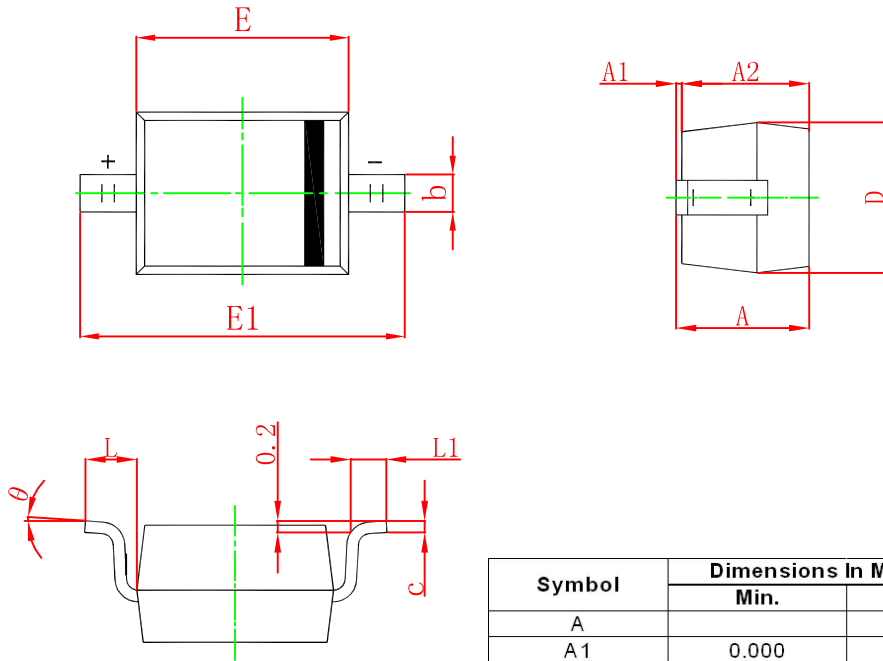
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V _{F1}		0.16		V	I _F =1mA
	V _{F2}		0.22		V	I _F =10mA
	V _{F3}		0.38	0.45	V	I _F =300mA
Reverse current	I _R			50	μA	V _R =20V
Capacitance between terminals	C _T		46		pF	V _R =0V, f=1MHZ



Typical Characteristics

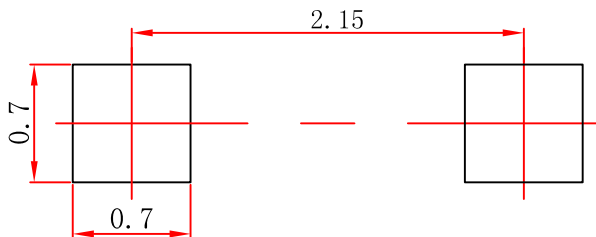


SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
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	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019 REF.	
L1	0.250	0.400	0.010	0.016
theta	0°		8°	

SOD-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.