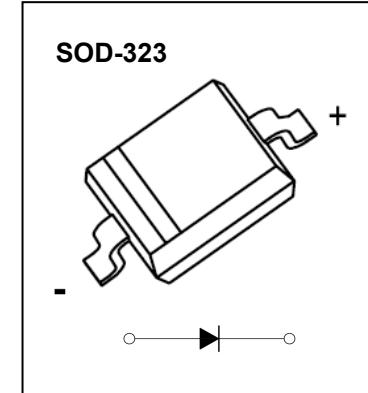




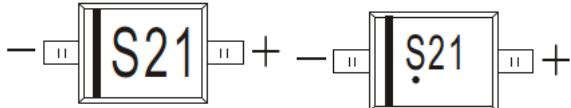
SCHOTTKY BARRIER DIODE

FEATURES

- Low turn-on voltage
- Fast switching
- Microminiature plastic package
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge
- Ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications



MARKING: S21



The marking bar indicates the cathode
Solid dot = Green molding compound device, if none,
the normal device.

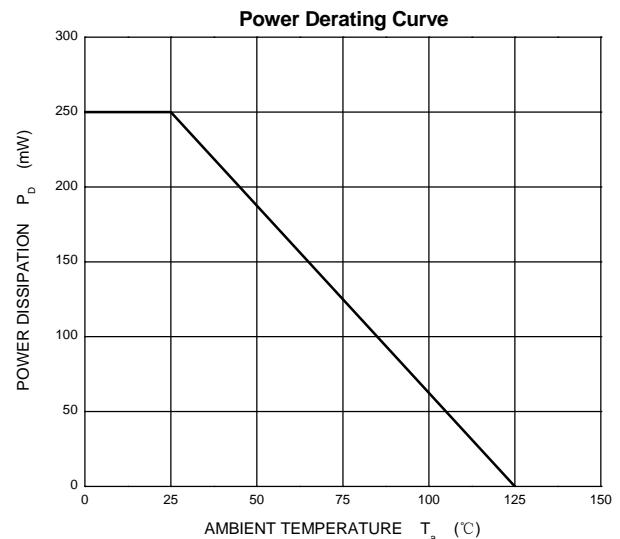
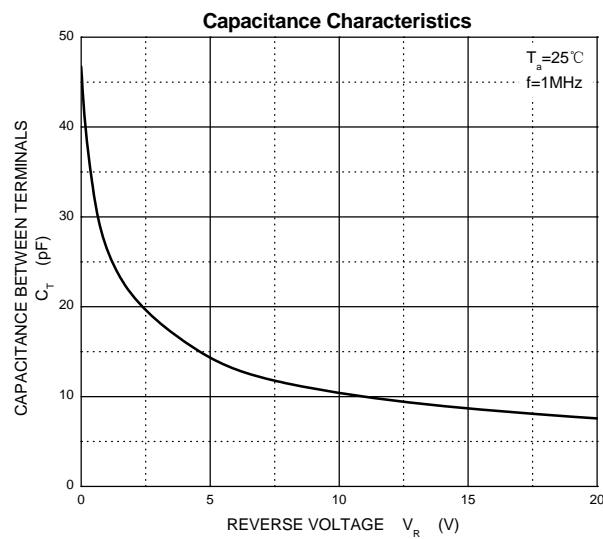
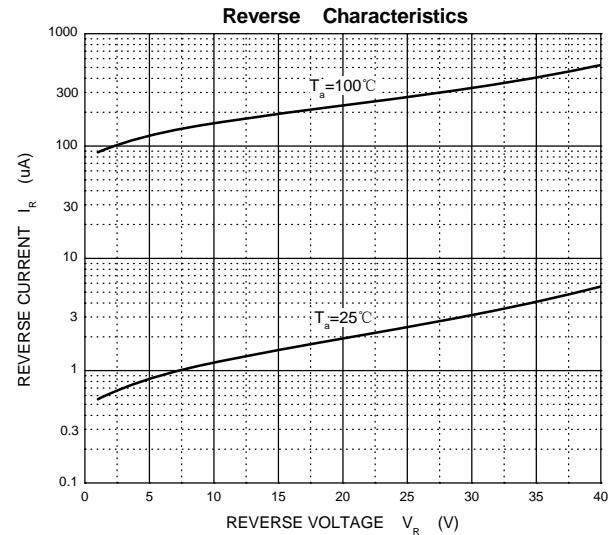
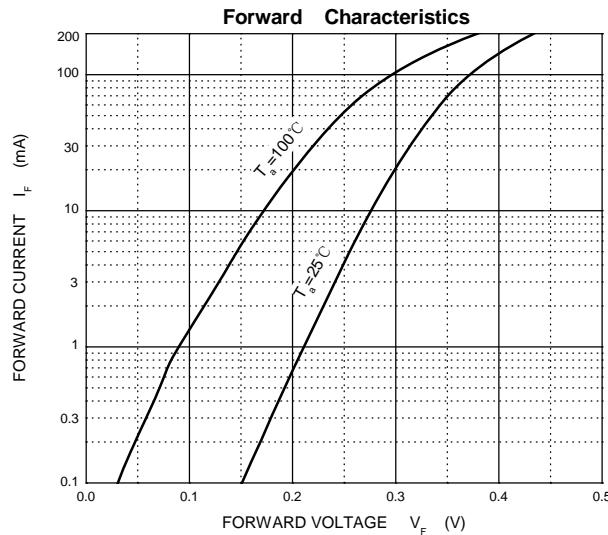
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit			Unit
Non-repetitive peak reverse voltage	V _{RM}	30			V
Forward current	I _{FM}	200			mA
Non-repetitive Forward Surge Current @t=8.3ms	I _{FSM}	1			A
Power dissipation	P _{tot}	250			mW
Thermal resistance junction to ambient	R _{eJA}	400			°C/W
Junction temperature	T _J	125			°C
Storage temperature	T _{STG}	-55~+150			°C

Electrical Ratings @Ta=25°C

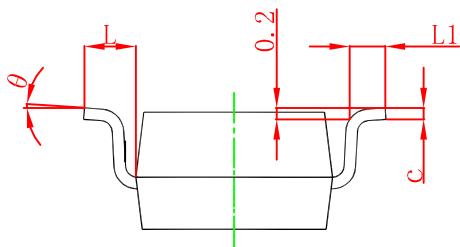
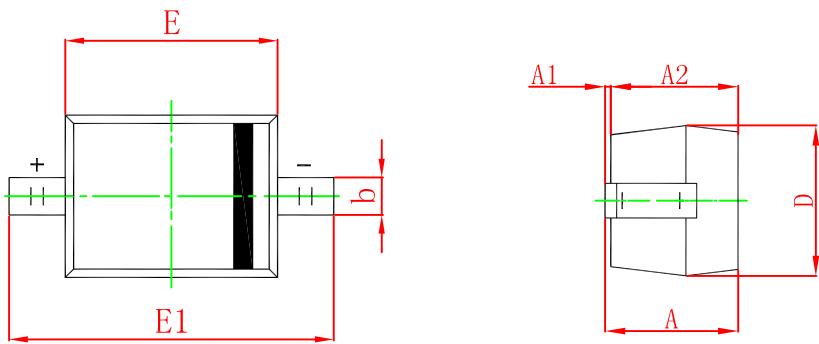
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V _R	30			V	IR=100uA
Forward voltage	V _F		260 320 420 490	550	mV	I _F =2mA I _F =15mA I _F =100mA I _F =200mA
Reverse current	I _R			5	μA	V _R =30V
Capacitance between terminals	C _T			15	pF	V _R =10V,f=1MHz

Typical Characteristics



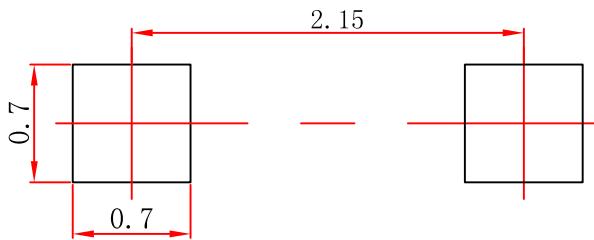


SOD-323 Package Outline Dimensions



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
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.