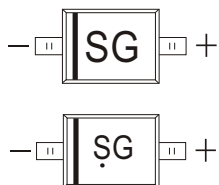
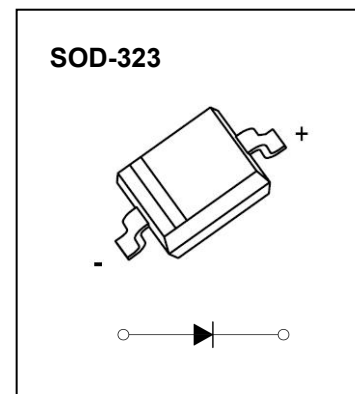


SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideal for Low Logic Level Applications
- Low Capacitance
- Also Available in Lead Free Version

MARKING: SG



The marking bar indicates the cathode

Solid dot = Green molding compound device, if none, the normal device

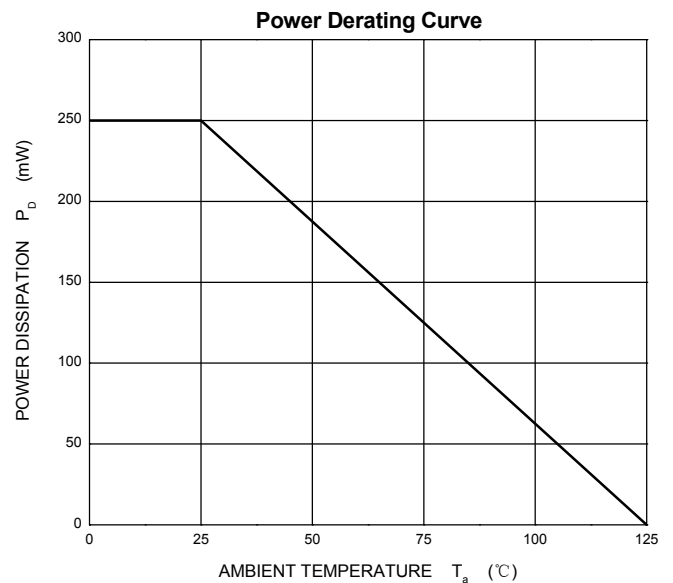
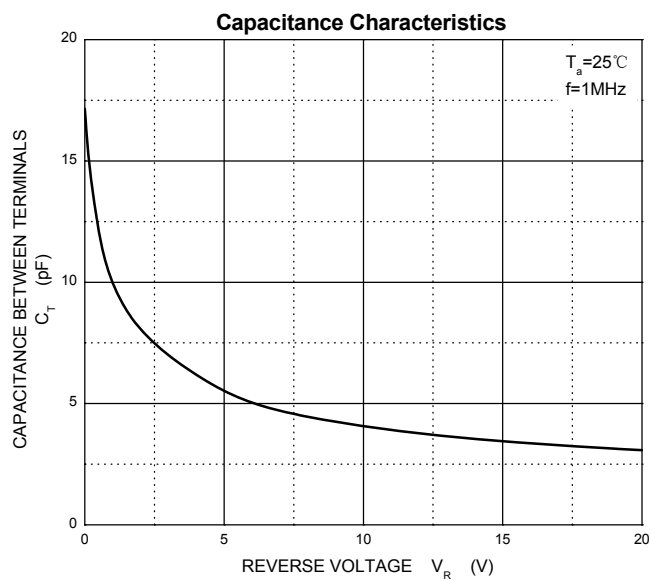
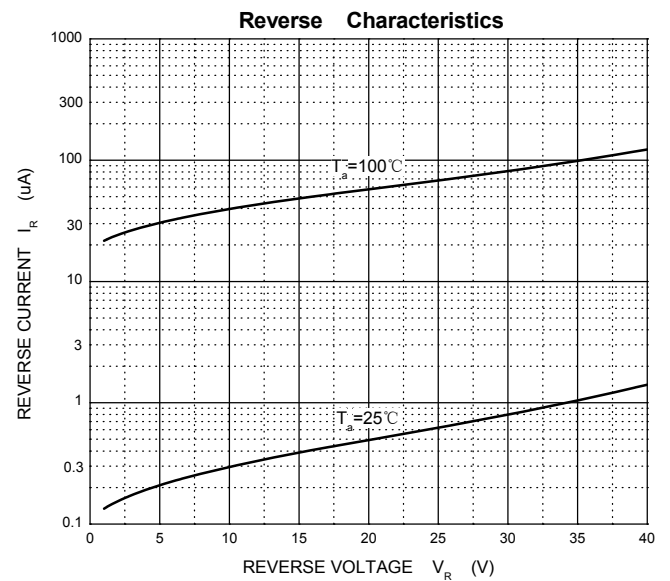
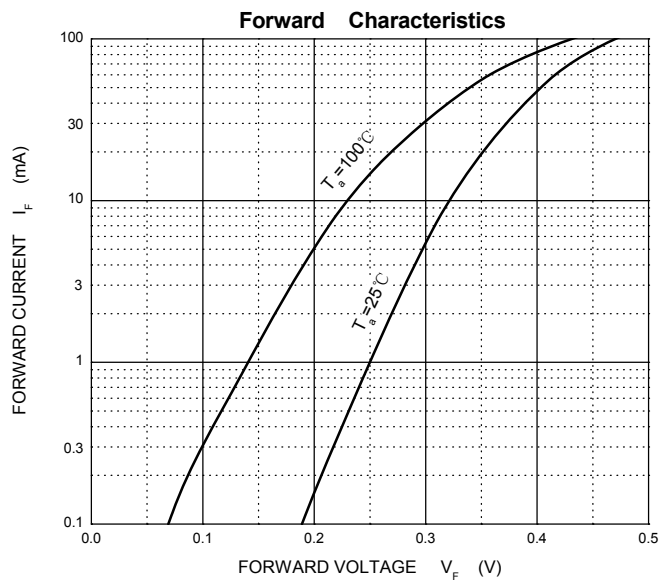
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-repetitive peak reverse voltage	V_{RM}	30	V
Forward current	I_{FM}	100	mA
Non-repetitive Peak Forward Surge Current @t = 8 .3ms	I_{FSM}	2	A
Power dissipation $T_C=25^{\circ}C$	P_{tot}	250	mW
Thermal resistance junction to ambient	T_{eJA}	400	$^{\circ}C/W$
Junction temperature	T_J	125	$^{\circ}C$
Storage temperature	T_{STG}	-55~+150	$^{\circ}C$

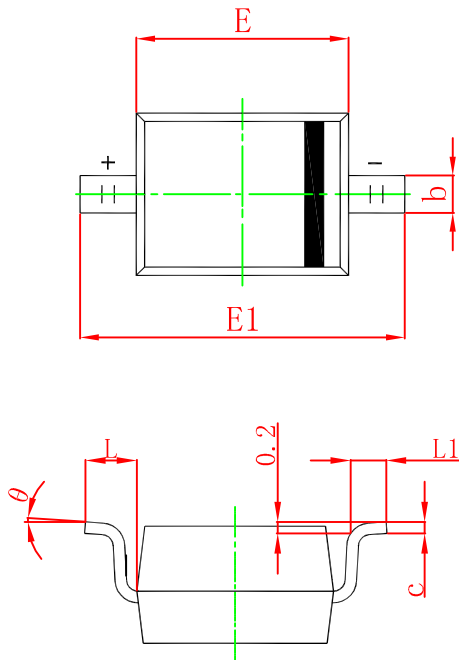
Electrical Ratings @Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	V_R	30			V	$I_R=100\mu A$
Forward voltage	V_F		300		mV	$I_F=2mA$
			360			$I_F=15mA$
			430	550		$I_F=50mA$
			500	800		$I_F=100mA$
Reverse current	I_R			1	μA	$V_R=25V$
Capacitance between terminals	C_T		7		pF	$V_R=10V, f=1MHz$

Typical Characteristics

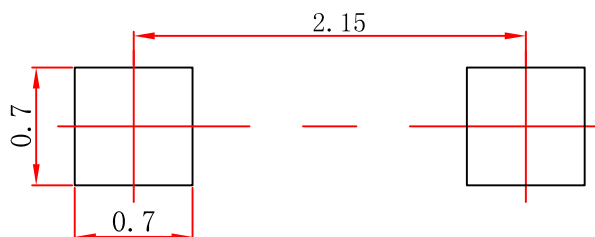


SOD-323 Package Outline Dimensions



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.