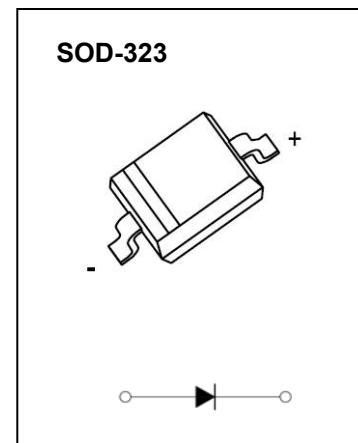
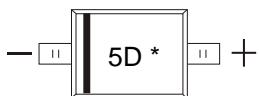


SOD-323 Plastic-Encapsulate Diodes

FEATURES

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

MARKING:5D *



5D = Device Code.

Earlier: D4. New 5D implemented: 08/23.

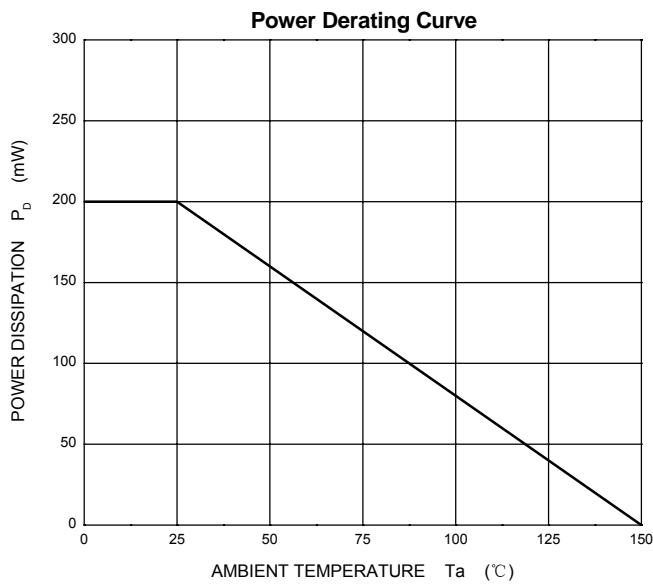
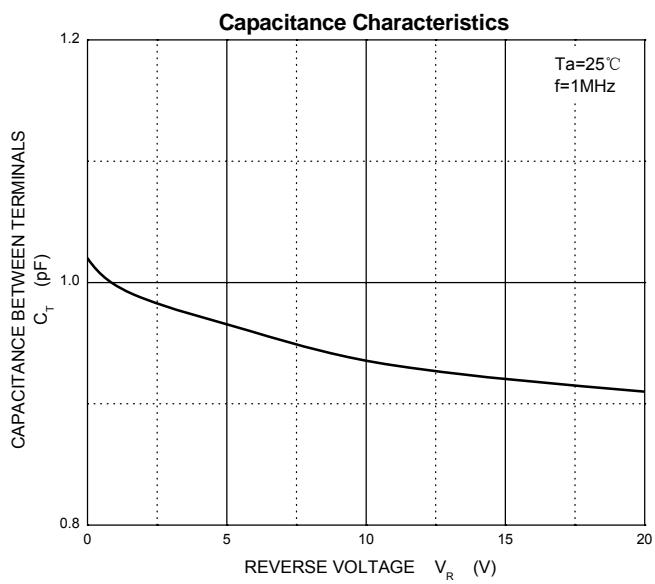
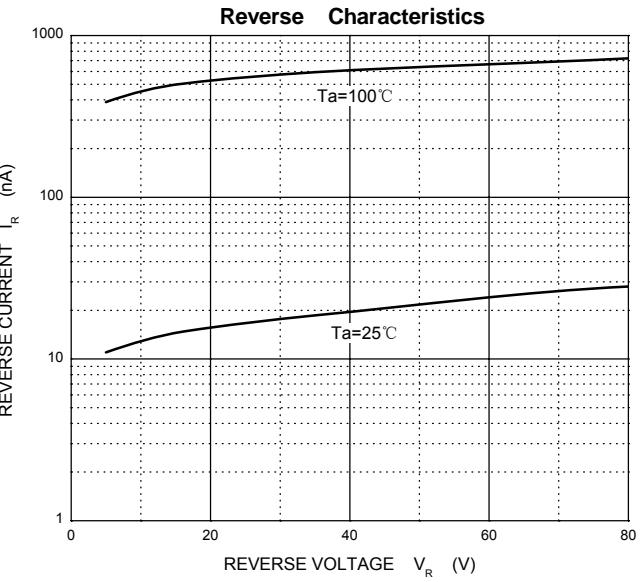
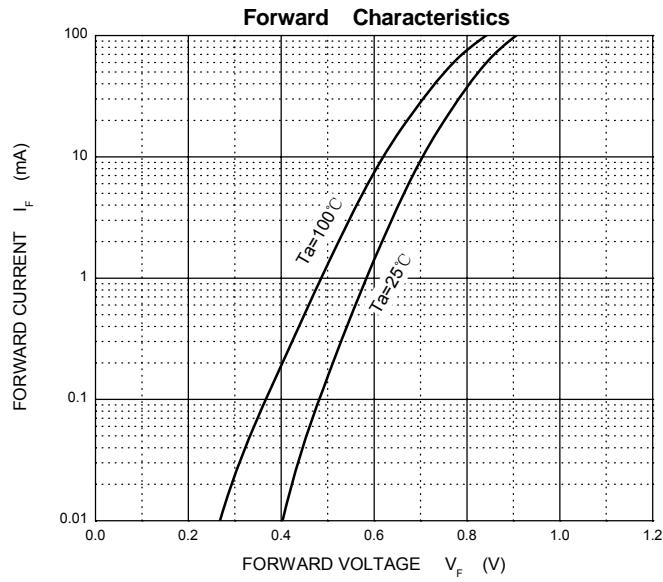
Maximum Ratings and Electrical Characteristics, Single Diode @ Ta=25°C

Parameter	Symbol	Limit	Unit
Non-repetitive peak reverse voltage	V _{RM}	110	V
DC blocking voltage	V _R	80	V
Peak forward current	I _{FM}	250	mA
Average rectified output current	I _O	150	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

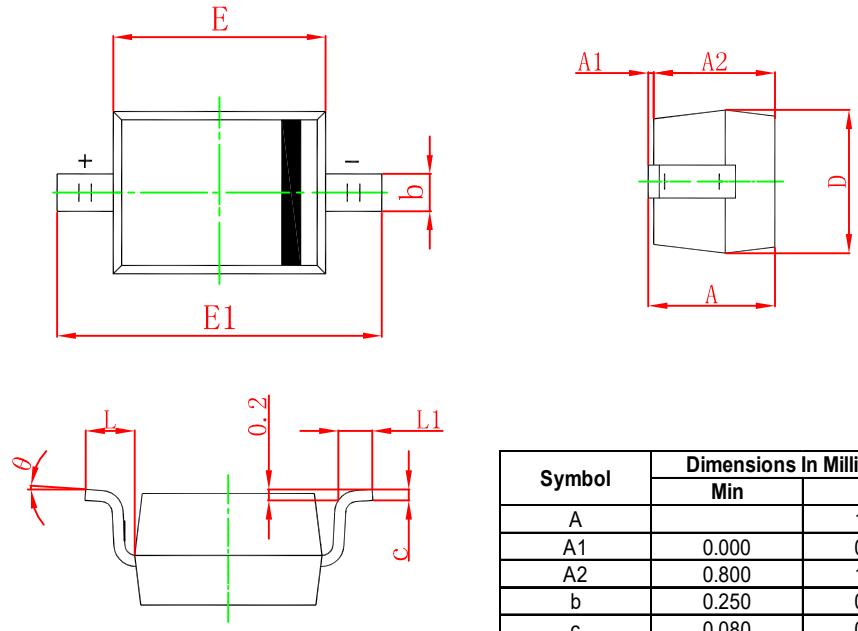
Electrical Ratings @ Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V _F			1.2	V	I _F =150mA
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

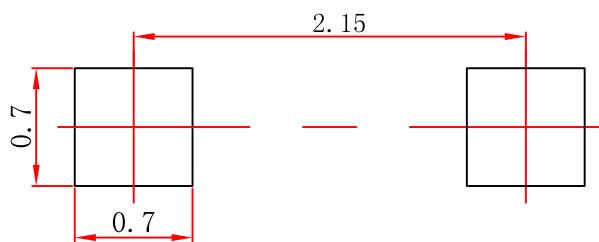


SOD-323 Package Outline Dimensions



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.