

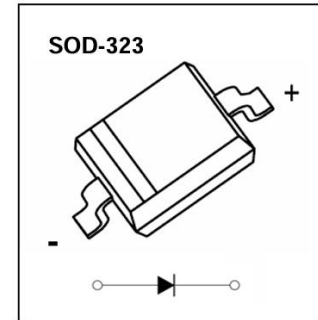
SOD-323 SURFACE MOUNT

Flat Lead Plastic Package

Schottky Barrier Diode

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	250	mW
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	+125	$^\circ\text{C}$
V_{RM}	Repetitive Peak Reverse Voltage	40	V
I_o	Average Rectified Output Current	1	A
I_{FSM}	Peak Forward Surge Current ($t=8.3\text{ms}$ Single Half Sine-wave)	9	A
I_{FRM}	Repetitive Peak Forward Current	1.5	A



These ratings are limiting values above which the serviceability of the diode may be impaired.
 Specification Features:

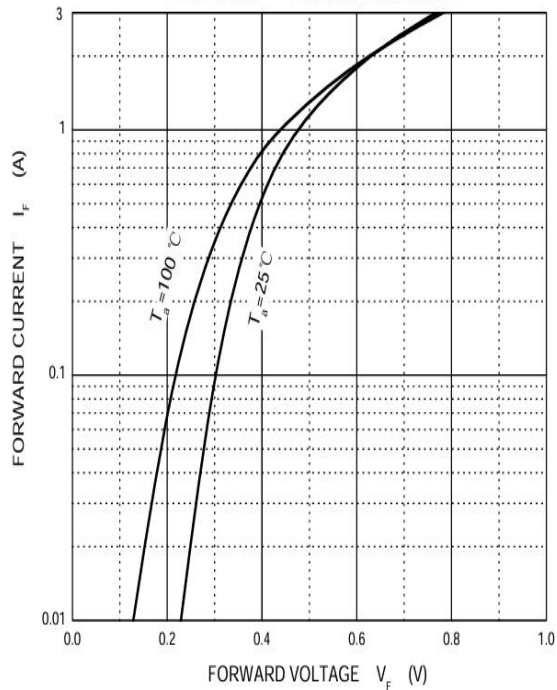
- 1、 For use in low voltage, high frequency inverters, free wheeling & polarity protection ...
- 2、 Flat Lead SOD-323 Small Outline Plastic Package
- 3、 Surface Device Type Mounting
- 4、 RoHS Compliant
- 5、 Green EMC
- 6、 Matte Tin(Sn) Lead Finish
- 7、 Band Indicates Cathode
- 8、 Weight: approx. 0.004g

Electrical Characteristics $T_A = 25^\circ\text{C}$

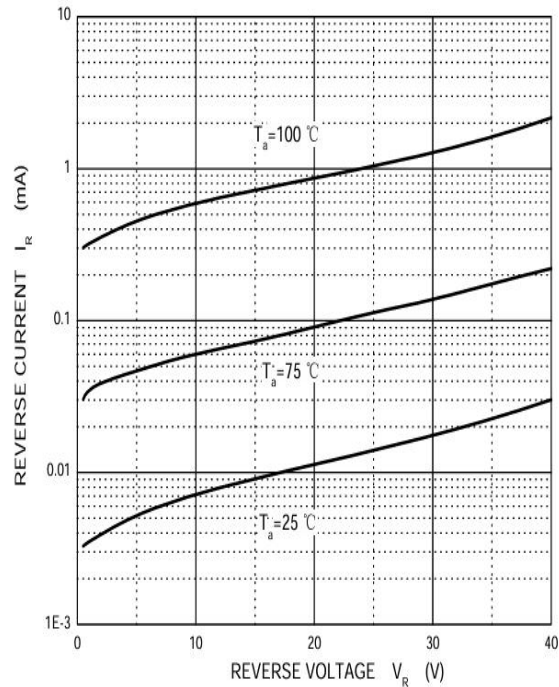
Symbol	Parameter	Test Condition	Limits			Unit
			Min	Typ	Max	
V_{BR}	Reverse Breakdown Voltage	$I_R=1\text{mA}$	40	--	-	Volts
I_{IR}	Reverse Leakage Current	$V_R=40\text{V}$	--	--	1	mA
V_F	Forward Voltage	$I_F=1\text{A}$	--	--	0.60	Volts
C_d	Diode Capacitance	$V_R=4\text{V}$ $f=1\text{MHz}$	--	30	----	pF

RATING AND CHARACTERISTIC CURVES

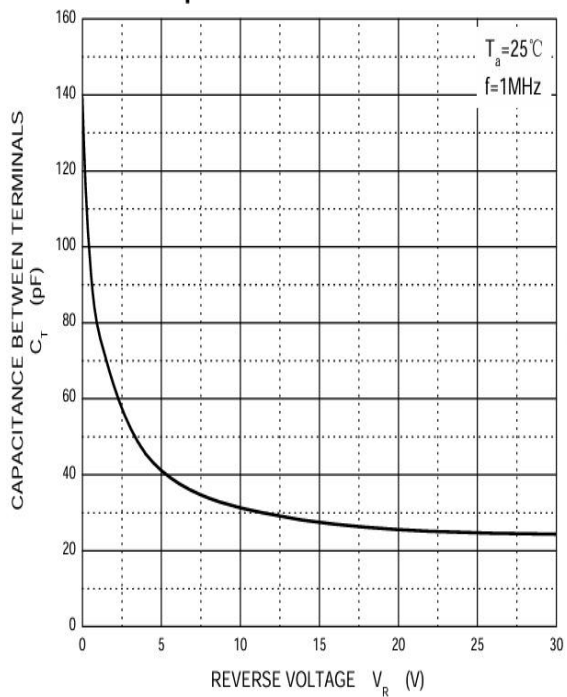
Forward Characteristics



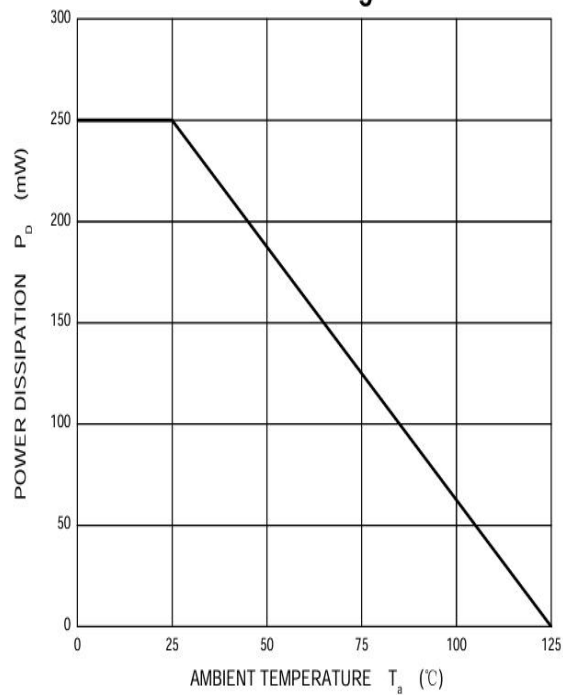
Reverse Characteristics



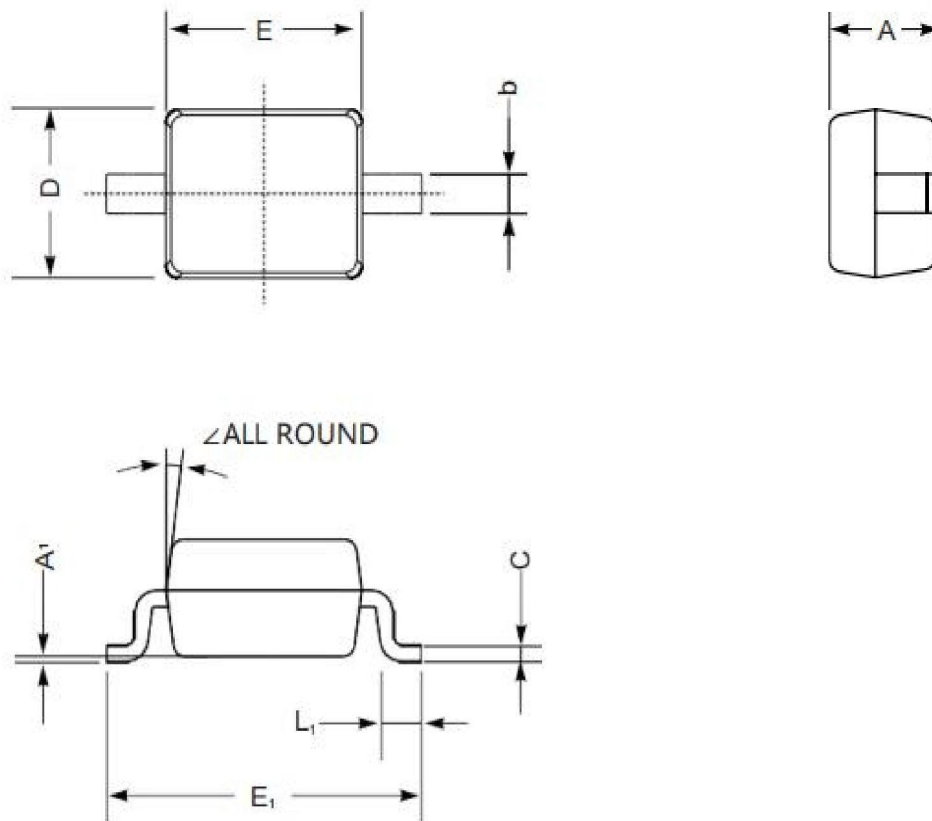
Capacitance Characteristics



Power Derating Curve



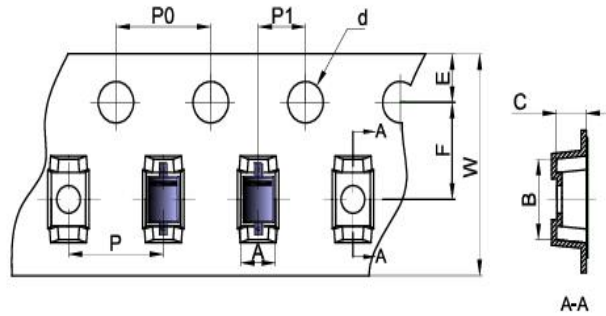
Package Outline



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

SOD-323 Embossed Carrier Tape

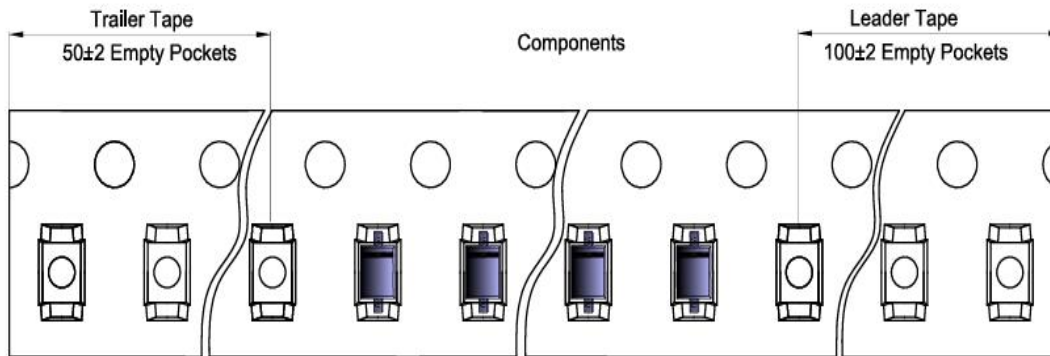


Packaging Description:

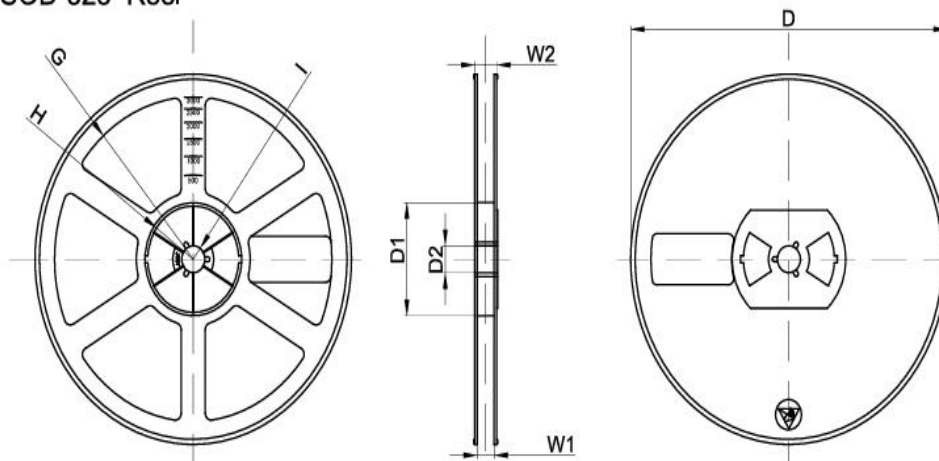
SOD-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



SOD-323 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"D1a	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	