AS0030A40T

Schottky Barrier Diode

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Capacitance

MECHANICAL DATA

▪Case: SOD-323
▪Terminals: Solderable per MIL-STD-750, Method 2026
▪Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

MARKING:5

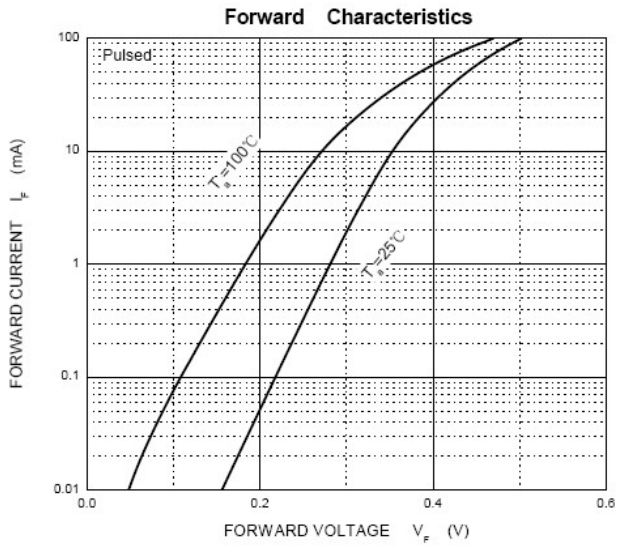
Simplified outline SOD-323 and symbol

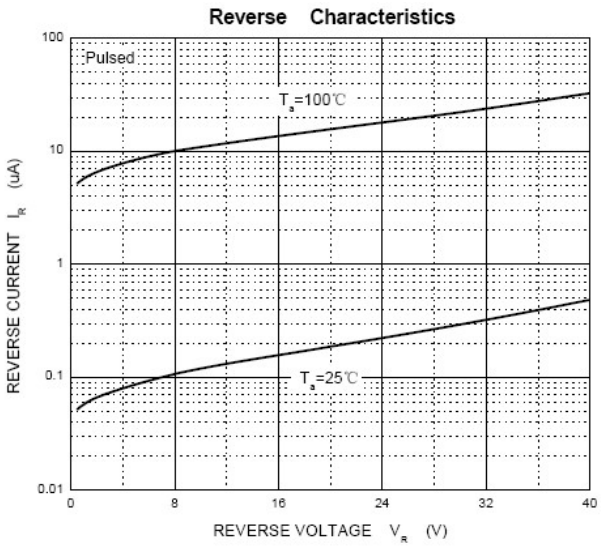
Maximum Ratings and Electrical characteristics

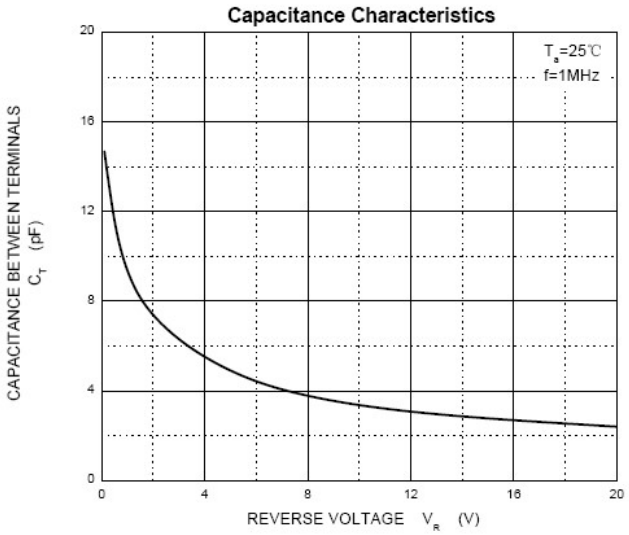
Ratings at 25 °C ambient temperature unless otherwise specified.

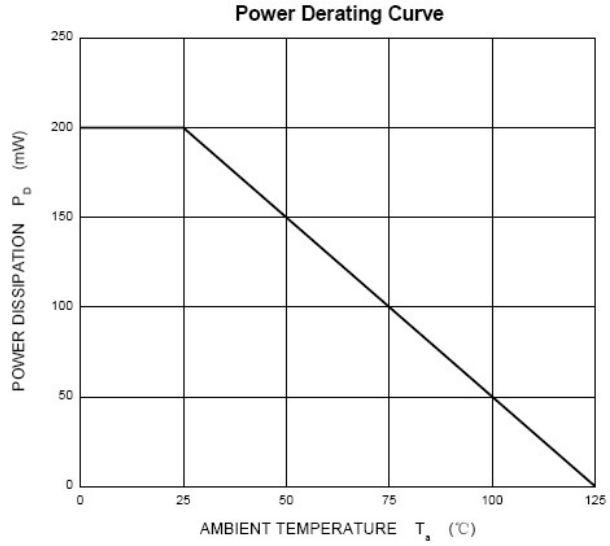
Parameter	Symbols	Value	Units
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
RMS reverse voltage	V_{RMS}	30	V
Working Peak Reverse Voltage	V_{DC}	40	V
Peak Forward Surge Current, 1.0s single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200	mA
Maximum Instantaneous Forward Voltage I_F=1mA	V_F	0.37	V
Power Dissipation	P_D	200	mW
V_R=30V	I_R	5	uA
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	300	°C/W
Forward Continuons Current	I_{FM}	30	mA
Total capacitance V_R=0V.f=1MHz	C_{tot}	6	pF
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	-55 ~ +150	℃

Typical Characteristics





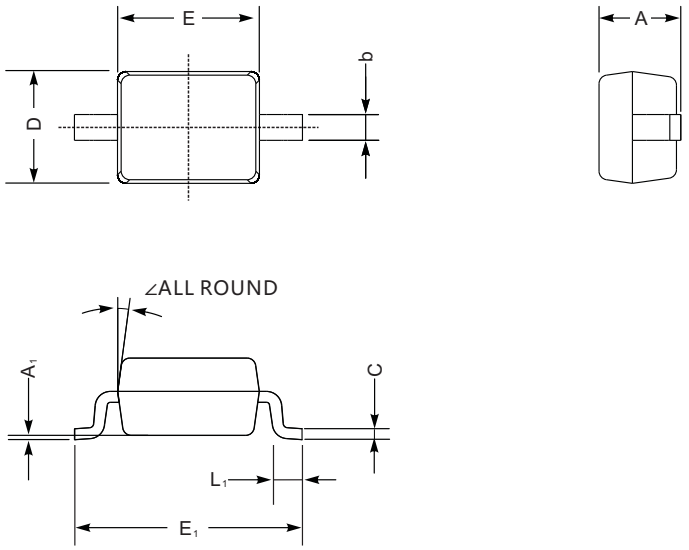




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



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	—	

The recommended mounting pad size

