

Plastic-Encapsulate Schottky Barrier Diode

Features

- ♦High Current Capability
- ♦Low Forward Voltage Drop

Mechanical Data

- ♦SOD-323 Small Outline Plastic Package
- ♦Polarity: Color band denotes cathode end
- ♦Mounting Position: Any

Marking: 4

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameters	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_o	0.1	A
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	1.0	A
Typical thermal resistance	$R_{\theta JA}$	500	°C/W
Power Dissipation	P_D	200	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{STG}	-40-+125	°C

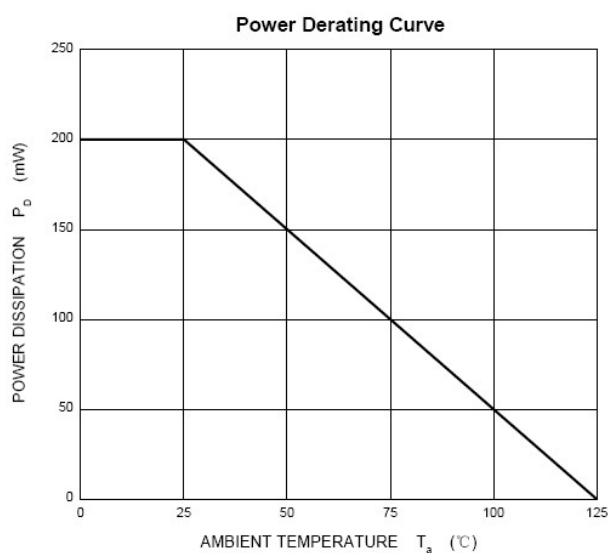
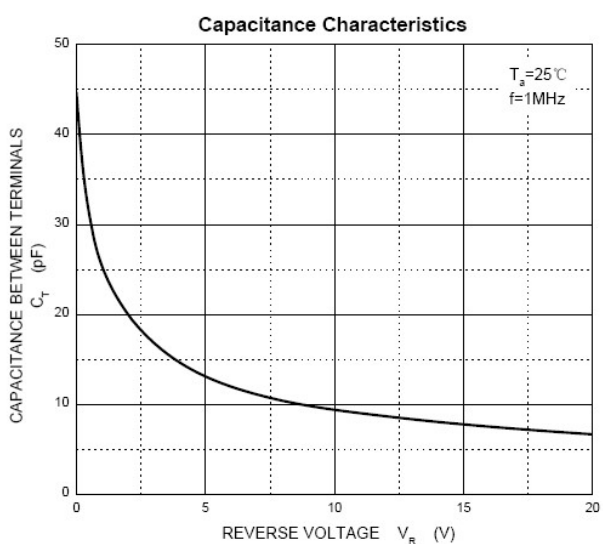
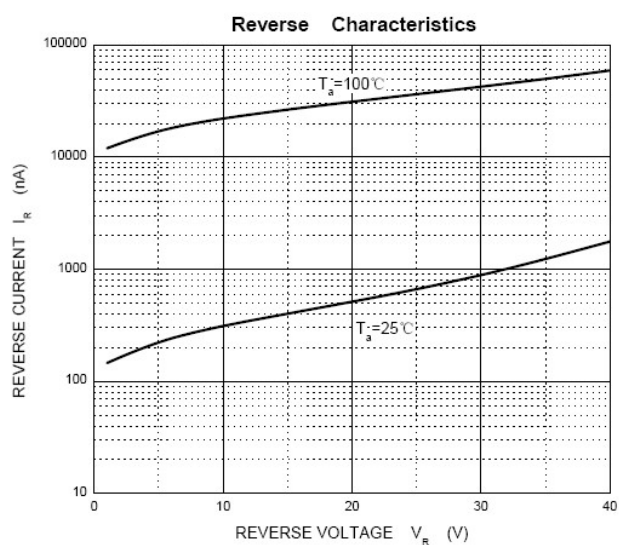
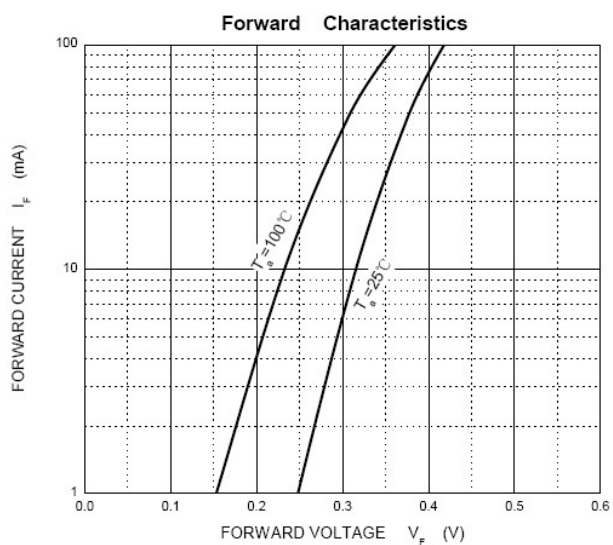
Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified).

Parameters	Test conditions	Symbol	Min.	Typ.	Max.	Unit
Maximum forward voltage	IF = 100mA	VF			0.55	V
	IF = 10mA				0.34	
Maximum reverse current	VR=10V	IR			30	uA
Capacitance between terminals	VR=10V, f=1MHz	CT		6		pF

Pinning

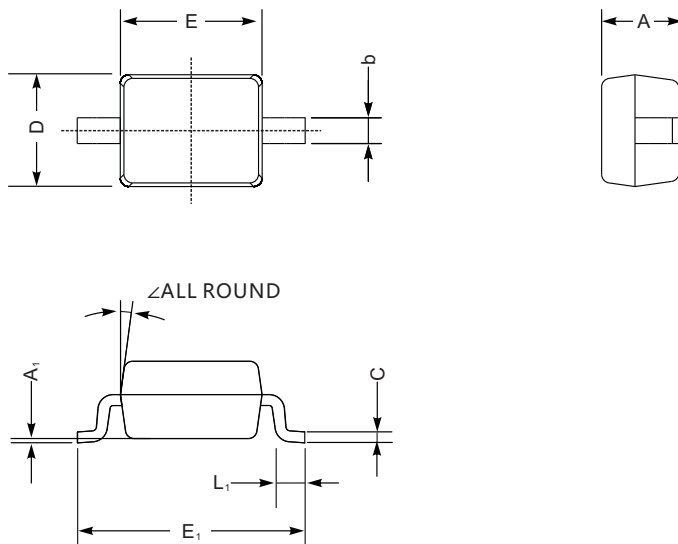
1.Cathode	2.Anode
	
SOD-323	



Package Outline

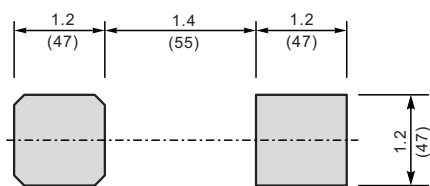
SOD-323

Plastic surface mounted package; 2 leads



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



Unit: $\frac{\text{mm}}{(\text{mil})}$

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOD-323	Tape/Reel, 7" reel	3000	EIA-481-1

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