



RB501V-40

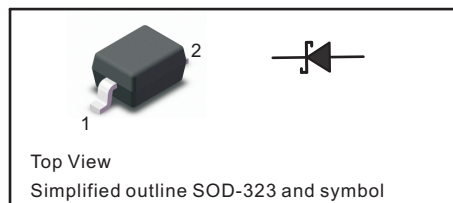
SCHOTTKY BARRIER DIODE

- Low Forward Voltage Schottky Rectifier
- RoHS compliant / Green EMC
- SOD323-GW Thin SMD package
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking

Device Marking Code	
RB501V-40	4

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	45	V
V_R	DC Blocking Voltage	40	V
I_O	Continuous Forward Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Current ^{*1}	1	A
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +125	$^{\circ}\text{C}$

^{*1} 8.3 ms single half sine-wave

Electrical Characteristics ($T_a = 25\text{ }^{\circ}\text{C}$)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_F	Forward Voltage	$I_F = 10\text{mA}$			0.34	V
		$I_F = 100\text{mA}$			0.55	V
I_R	Reverse Current	$V_R = 10\text{V}$			30	μA
C	Capacitance	$V_R = 10\text{V}$, $f = 1\text{MHz}$		5		pF

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
RB501V-40	SOD323	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

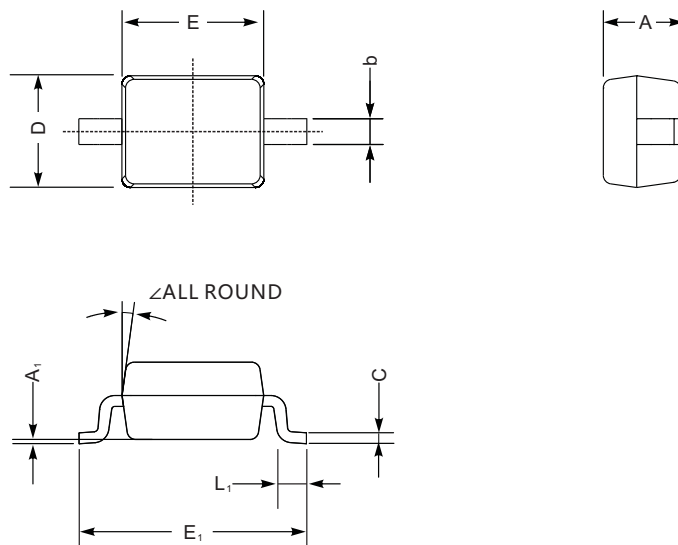


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PACKAGE OUTLINE

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

