



RB501V-40 Schottky Barrier Diode

Features

- Low Forward Voltage
- For use in low voltage, high frequency inverters

SOD-323



1.Cathode  2.Anode

Marking Code : 4

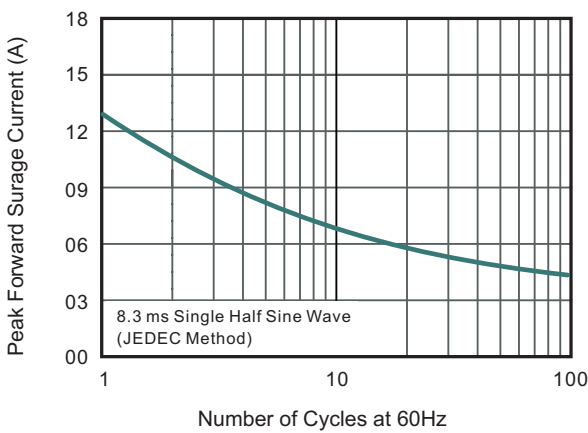
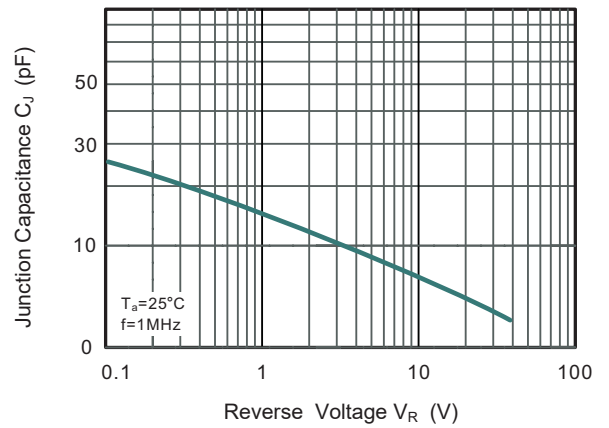
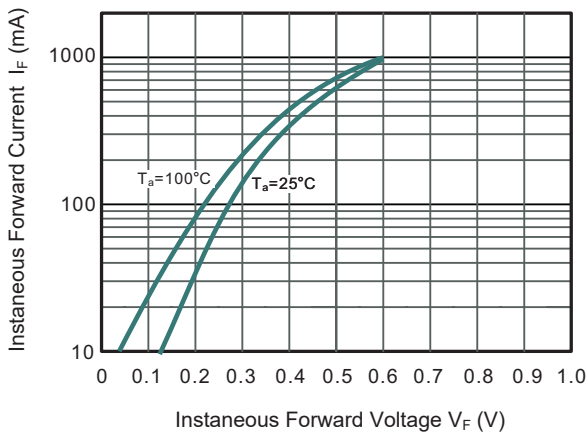
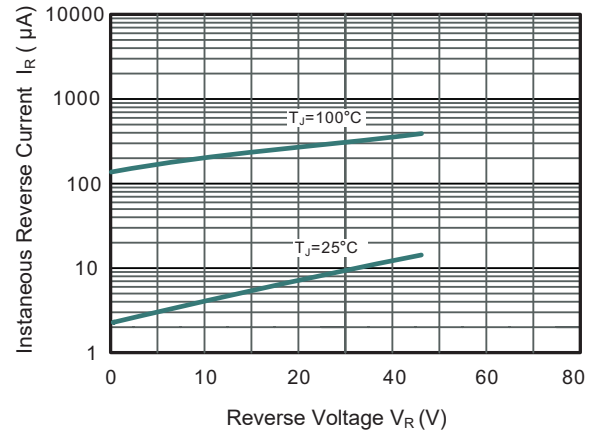
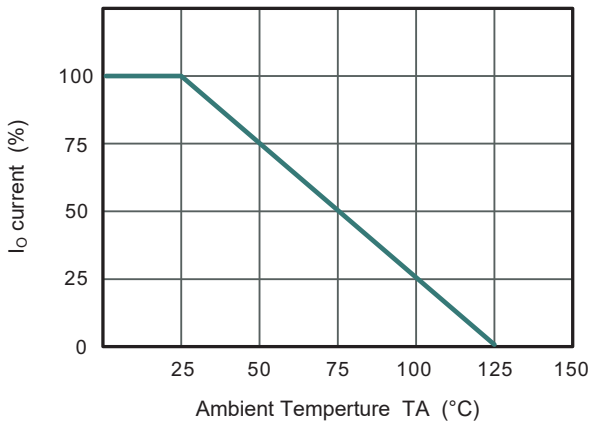
Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	RB501V-40	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
DC Reverse Voltage	V_R	40	V
Continuous Forward Current	I_O	0.1	A
Reverse Leakage Current at $V_R=10V$	I_R	30	μA
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	13	A
Maximum Forward Voltage at $I_F=10\text{ mA}$ at $I_F=100\text{ mA}$	V_F	0.34 0.55	V
Capacitance between terminals at $V_R=10\text{ V}$, $f=1\text{ MHz}$	C_T	6	pF
Junction Temperature	T_J	125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C



Typical Characteristic Curves



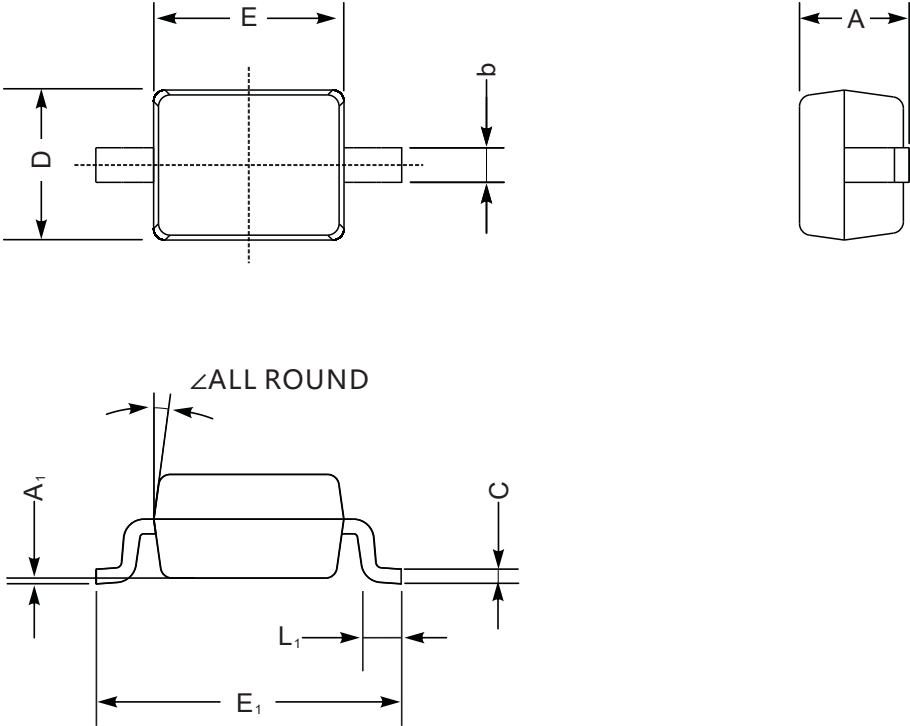


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Package Outline

SOD-323

Dimensions in mm



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	—	