



RB751V-40

Schottky Barrier Diode

Features

- Low Forward Voltage
- Fast Switching Time
- Surface Mount Package Ideally
Suited for Automated Insertion

SOD-323W



1.Cathode  2.Anode

Marking Code : 5E

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

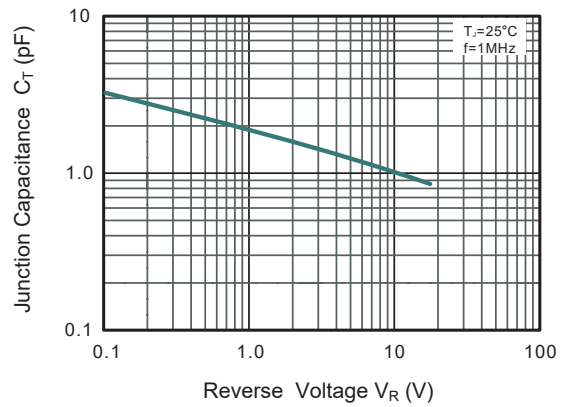
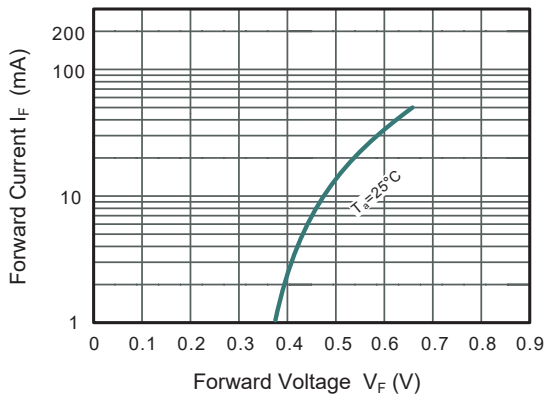
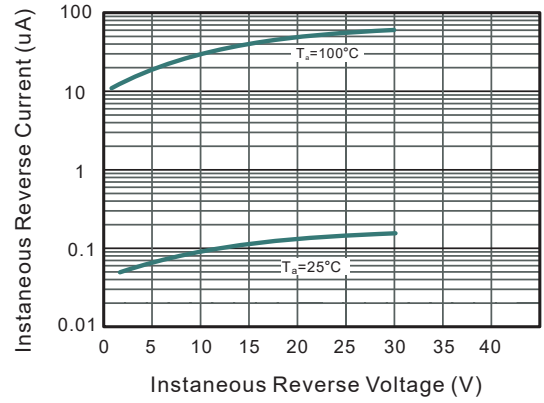
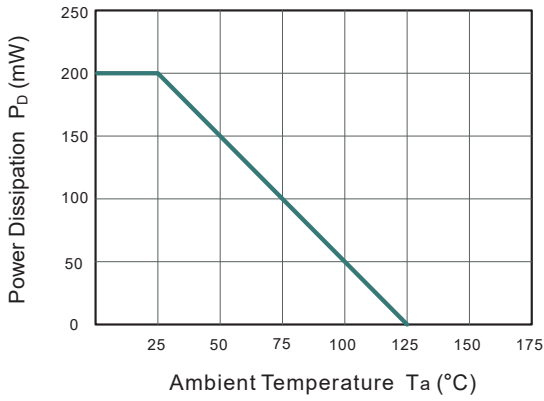
Parameter	Symbols	RB751V-40	Units
Peak Reverse Voltage	V_{RM}	40	V
DC Reverse Voltage	V_R	30	V
Continuous Forward Current	I_F	30	mA
Non-Repetitive Peak Forward Surge Current at $t = 8.3\text{ms}$	I_{FSM}	0.2	A
Power Dissipation	P_D	200	mW
Maximum Forward Voltage at $I_F=1\text{mA}$	V_F	0.37(Max.)	V
Peak Reverse Current at $V_R=30\text{V}$, $T_J=25^\circ\text{C}$	I_R	0.5(Max.)	μA
Typical Junction Capacitance at $V_R=1\text{V}$, $f=1\text{MHz}$	C_j	2(Typ.)	pF
Thermal Resistance, Junction to Ambient Air ^{Note1}	$R_{\theta JA}$	635	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Note:

1. Part mounted on FR-4 board with recommended pad layout.



Typical Characteristic Curves



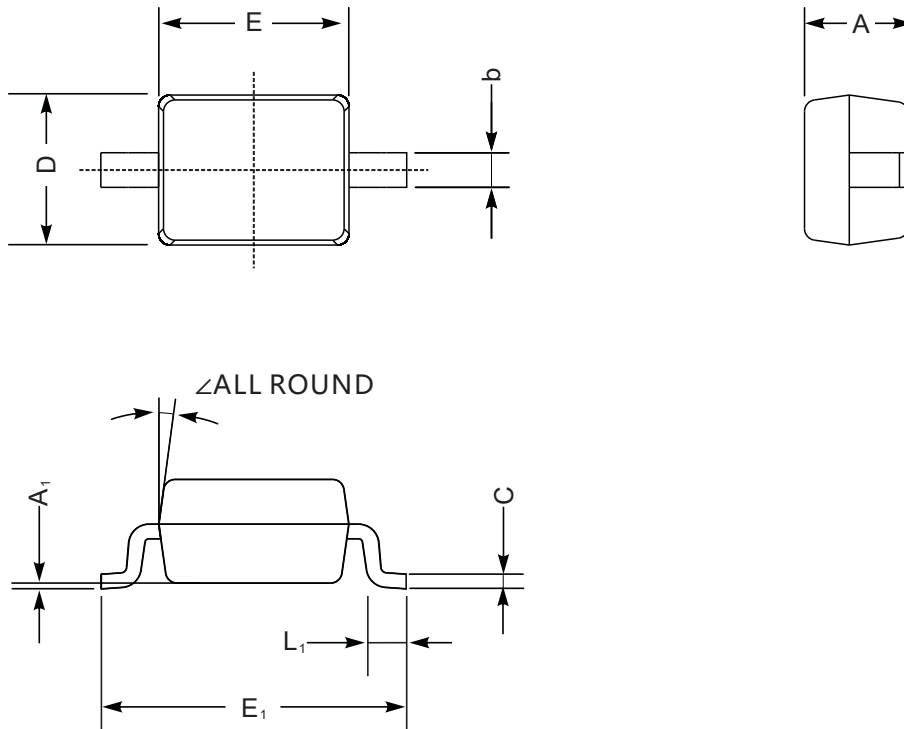


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Package Outline

SOD-323W

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	—	