RB751V-40

ROHS

Plastic-Encapsulate Schottky Barrier Diode

Features

- ◆ Low Current
- ◆ Low Voltage, Low Inductance
- For Power Supply



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Mechanical Data

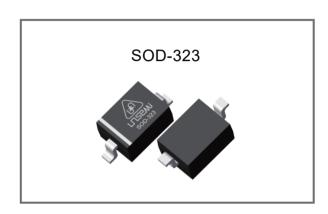
◆ Case: SOD-323

◆ Molding Compound Flammability Rating: UL 94V-O

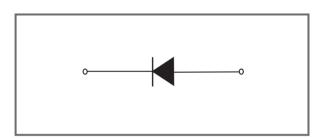
◆ Polarity: Color Band Denotes Cathode End

◆ Quantity Per Reel: 3,000pcs

◆ Device Marking: 5



Functional Diagram



Mechanical Characteristics

Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	VRRM	40	V
Reverse Voltage	VR	40	V
Average Rectified Output Current	lo	0.03	А
Non-Repetitive Peak Forward Surge Current @t=8.3ms	IFSM	0.2	А
Power Dissipation	PD	0.2	W
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction Temperature Range	TJ	-40~+125	°C
Storage Temperature Range	Tstg	-55~+150	°C



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

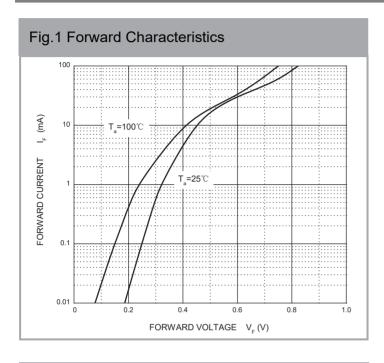
Parameter	Symbol	Test Conditions	Value			Units
Falailletei	Symbol Test Conditions		Min.	Тур.	Max.	Office
Reverse Current	lR	VR=30V	-	-	0.5	μA
Forward Voltage	VF	IF=1mA	-	-	0.37	V
Capacitance Between Terminals	Ст	VR=1V, f=1MHZ	-	2.0	-	pF

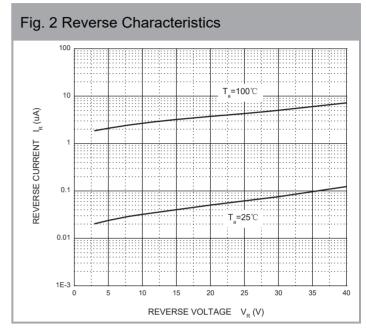


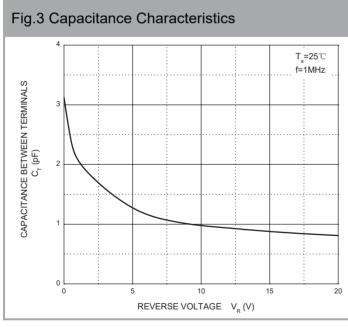
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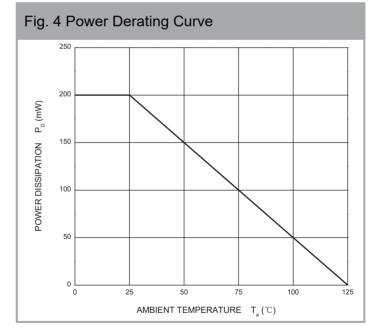
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Electrical Characteristics Curves







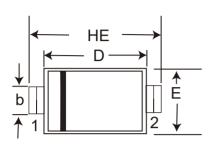


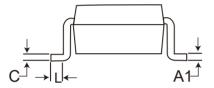


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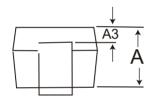
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Package Outline & Dimensions

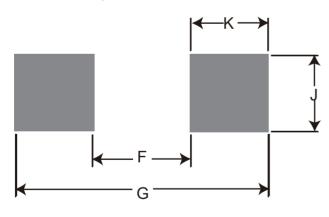




Symbol	Millimeters		Inches			
Syllibol	Min.	Nom.	Max.	Min.	Nom.	Max.
А	0.80	0.90	1.00	0.031	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3	0.15REF		0.006REF			
b	0.25	0.32	0.40	0.010	0.012	0.016
С	0.089	0.12	0.177	0.003	0.005	0.007
D	1.60	1.70	1.80	0.062	0.066	0.070
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
HE	2.30	2.50	2.70	0.090	0.098	0.105



Soldering Footprint



Symbol	Millimeters	Inches
F	1.60	0.063
G	2.85	0.112
J	0.83	0.033
K	0.63	0.025



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