

RB751V-40

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 Volt **CURRENT** 0.03 Ampere

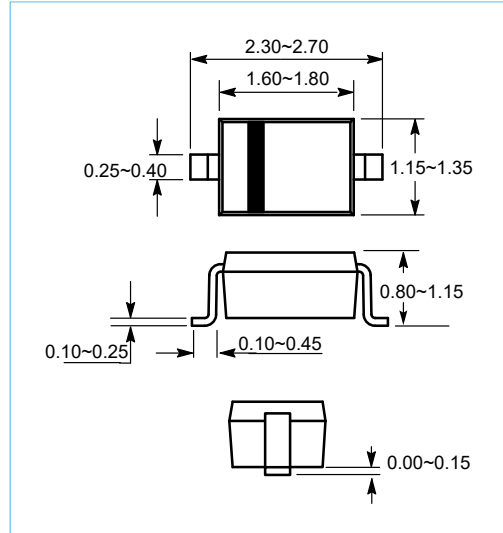
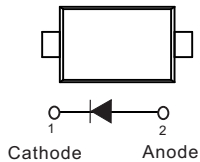
SOD-323 Unit:mm

FEATURES

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply
- Lead free in compliance with EU RoHS
- Marking code: 5

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	40	V
Reverse voltage	V_R	30	V
Average Rectified Output Current	I_O	0.03	A
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	0.2	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

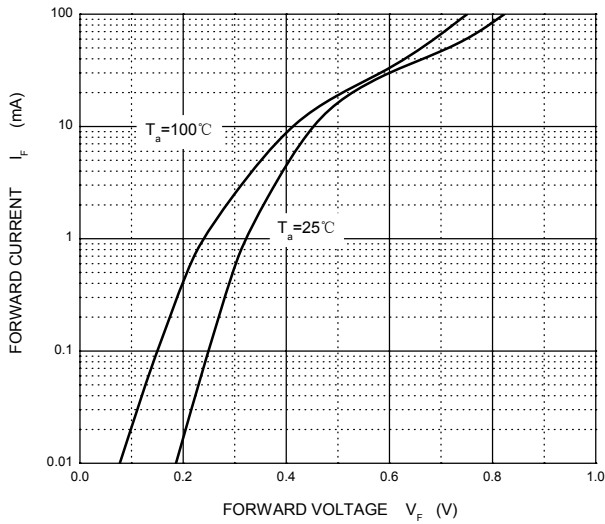
ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	($I_F = 1\text{ mA}$)			0.37	V
Reverse Leakage	I_R	($V_R = 30\text{ V}$)			0.5	μA
Capacitance between terminals	C_T	($V_R = 1\text{ V}, f=1\text{MHz}$)		2		pF

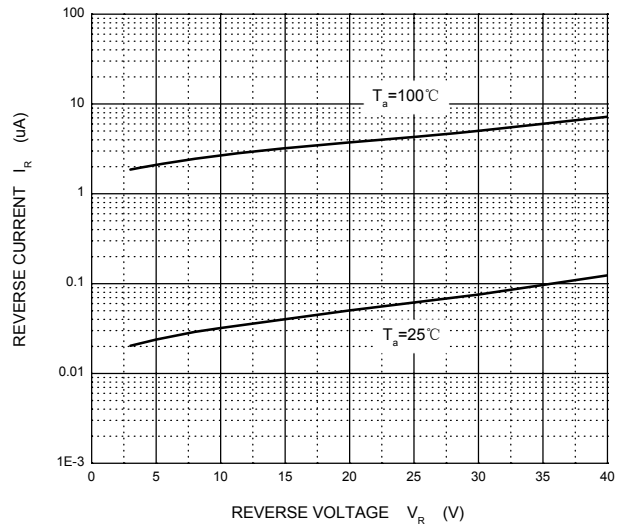
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Typical Characteristics

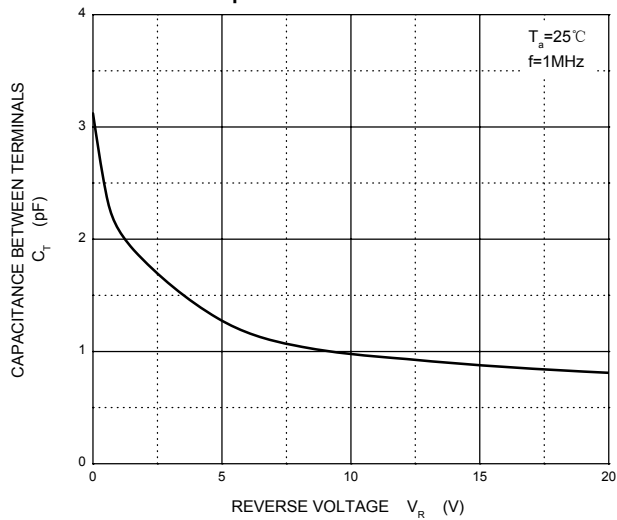
Forward Characteristics



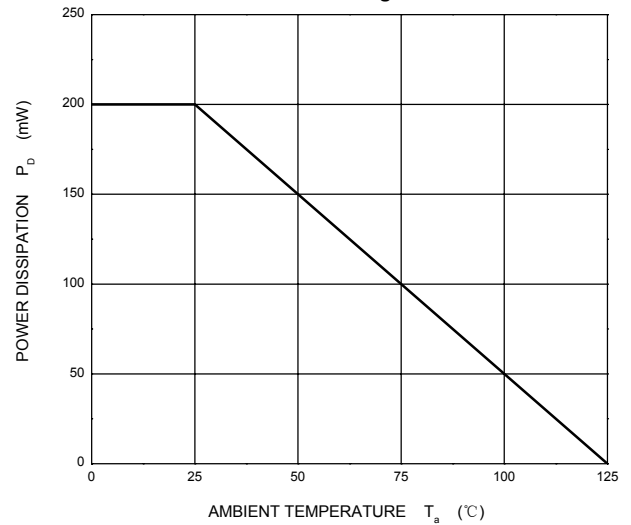
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

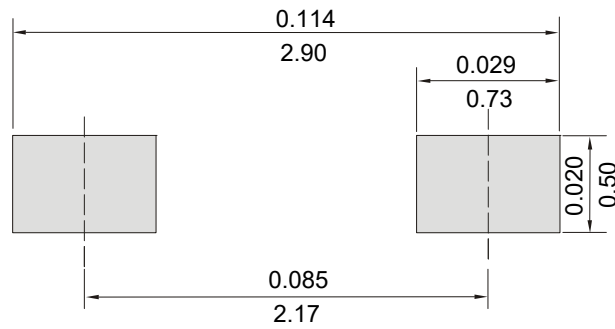


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MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
RB751V-40	SOD-323	7 Inch	3000