

RB501V-40

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 Volt **CURRENT** 0.1 Ampere

SOD-323

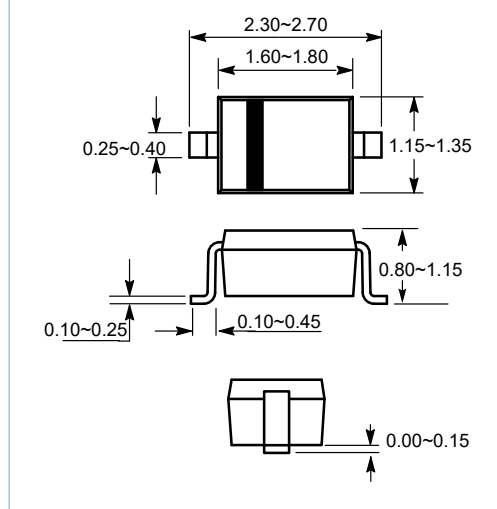
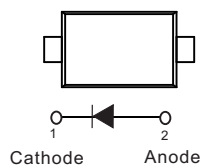
Unit:mm

FEATURES

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply
- Lead free in compliance with EU RoHS
- Marking code: 4

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)

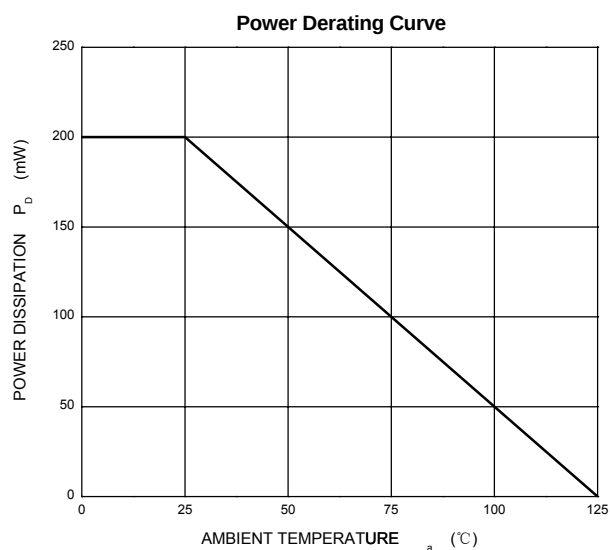
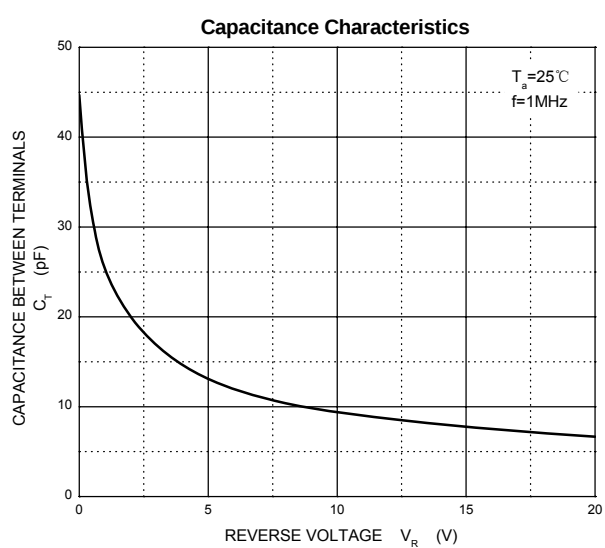
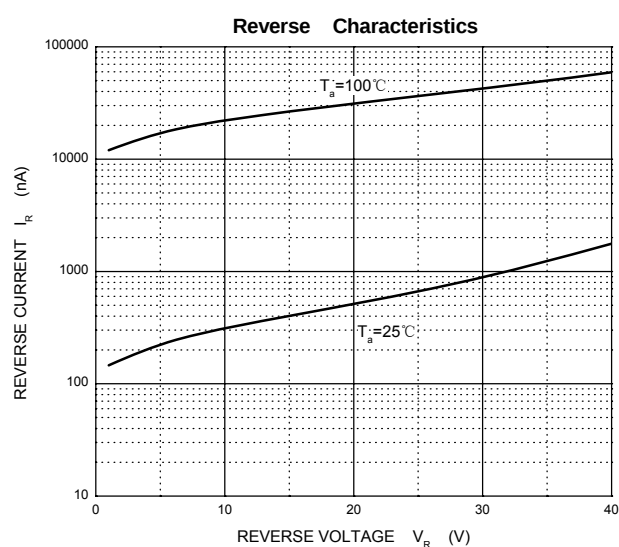
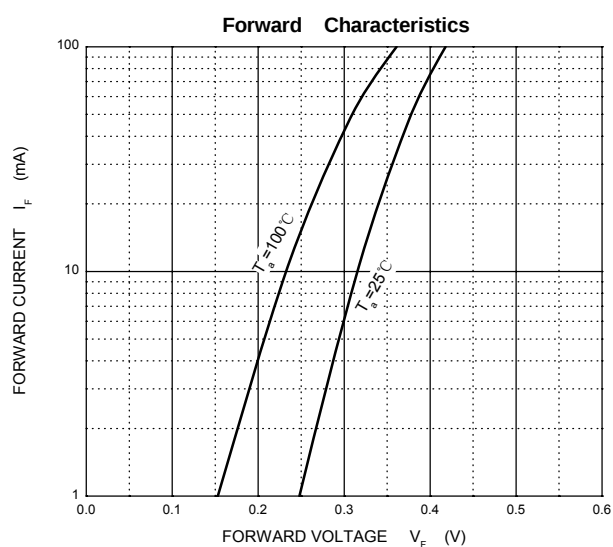
Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	45	V
Reverse voltage	V_R	40	V
Average Rectified Output Current	I_O	0.1	A
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	1.0	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
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	($I_F = 10\text{ mA}$) ($I_F = 100\text{ mA}$)			0.34 0.55	V
Reverse Leakage	I_R	($V_R = 10\text{ V}$)			30	μA
Capacitance between terminals	C_T	($V_R = 10\text{ V}, f=1\text{MHz}$)		6.0		pF

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Typical Characteristics

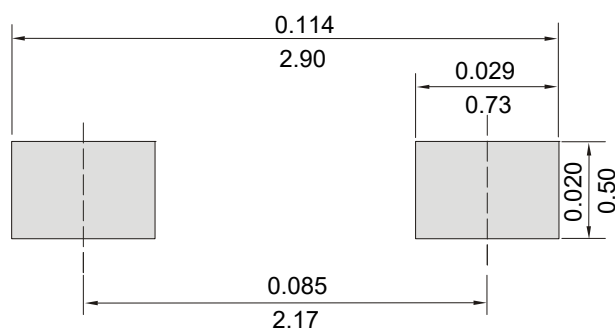


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MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
RB500V-40	SOD-323	7 Inch	3000