

# RB500V-40

## SURFACE MOUNT SCHOTTKY BARRIER

<b>VOLTAGE</b>	<b>40 Volt</b>	<b>CURRENT</b>	<b>0.1 Ampere</b>
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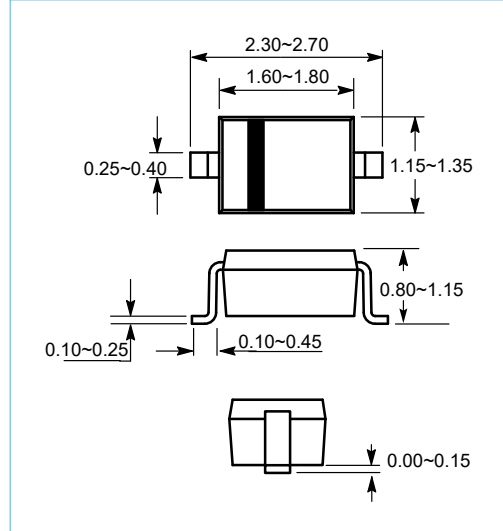
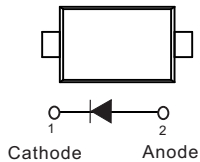
**SOD-323** Unit:mm

### FEATURES

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply
- Lead free in compliance with EU RoHS
- Marking code: 2

### MECHANICAL DATA

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



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(T<sub>A</sub> = 25°C unless otherwise noted)

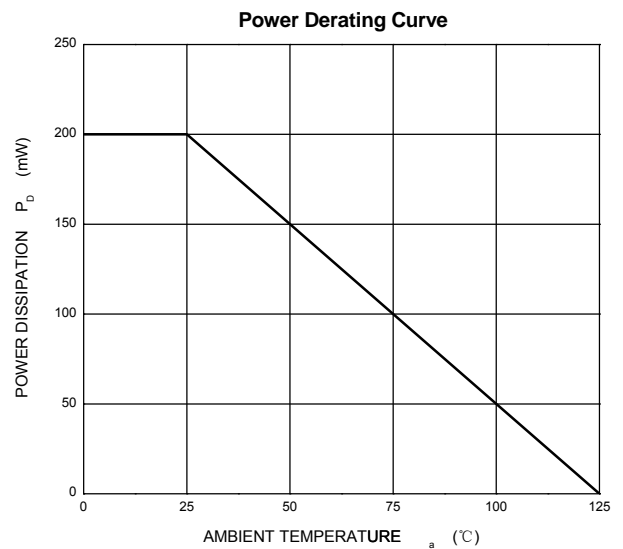
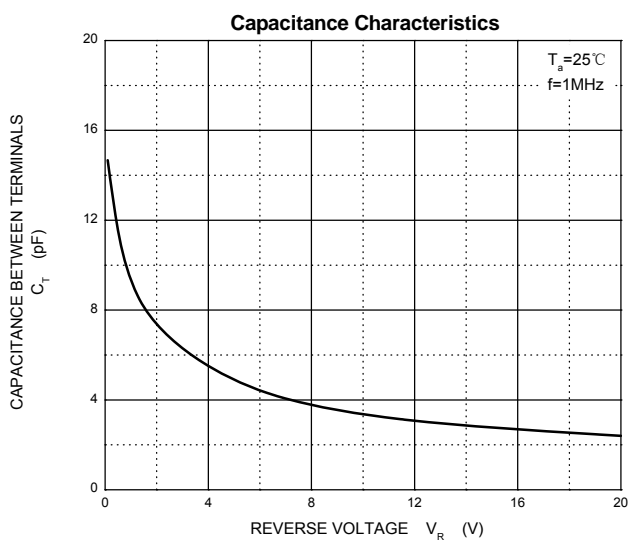
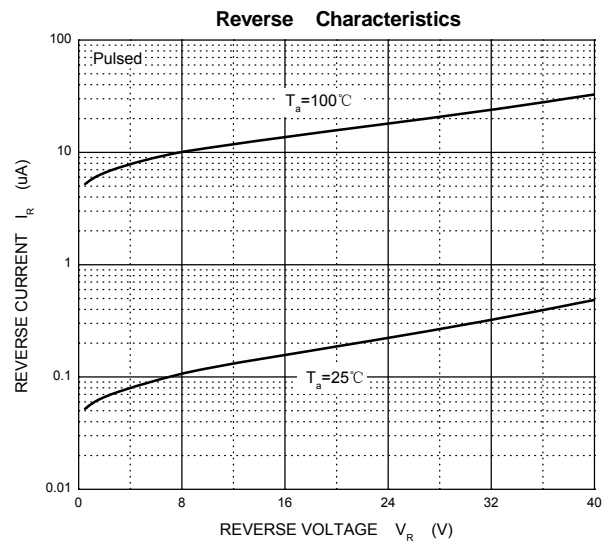
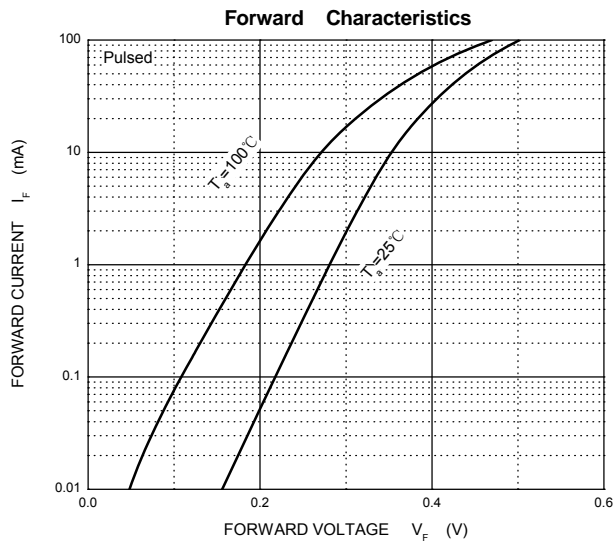
Parameter	Symbol	Value	Units
Peak reverse voltage	V <sub>RM</sub>	45	V
Reverse voltage	V <sub>R</sub>	40	V
Average Rectified Output Current	I <sub>O</sub>	0.1	A
Non-repetitive Peak Forward surge current @t=8.3ms	I <sub>FSM</sub>	1.0	A
Power dissipation	P <sub>D</sub>	200	mW
Thermal resistance junction to ambient	R <sub>θJA</sub>	500	°C/W
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS(T<sub>A</sub> = 25°C unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	(I <sub>F</sub> = 10 mA)			0.45	V
Reverse Leakage	I <sub>R</sub>	(V <sub>R</sub> = 10 V)			1.0	μA
Capacitance between terminals	C <sub>T</sub>	(V <sub>R</sub> = 10 V, f=1MHz)		6.0		pF

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## Typical Characteristics

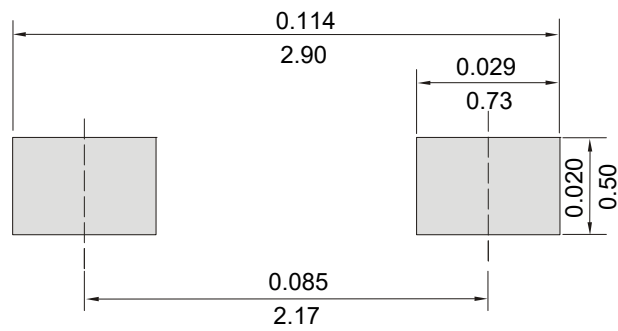


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## MOUNTING PAD LAYOUT

**SOD-323**

Unit:Inch(mm)



## ORDER INFORMATION

- Packing information

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