

RB551V-40

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE	40 Volt	CURRENT	0.5 Ampere
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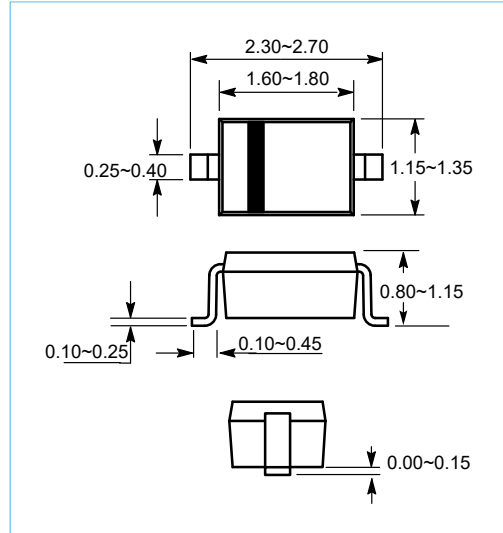
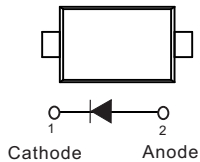
SOD-323 Unit:mm

FEATURES

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply
- Lead free in compliance with EU RoHS
- Marking code: D4

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Peak reverse voltage	V _{RM}	40	V
Reverse voltage	V _R	40	V
Average Rectified Output Current	I _O	0.5	A
Non-repetitive Peak Forward surge current @t=8.3ms	I _{FSM}	2.0	A
Power dissipation	P _D	200	mW
Thermal resistance junction to ambient	R _{θJA}	500	°C/W
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-55 to +150	°C

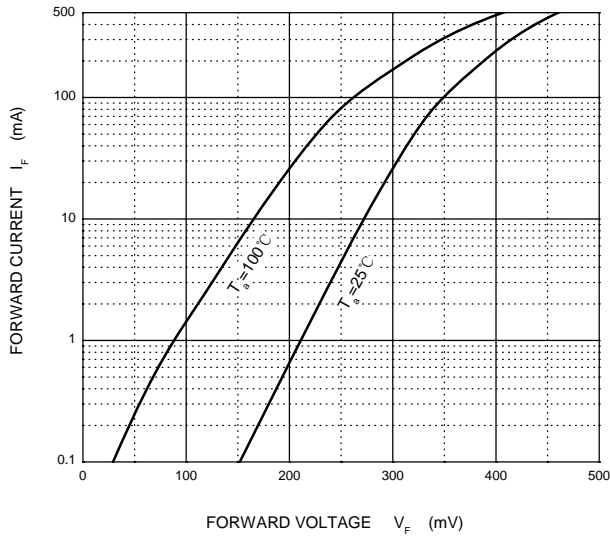
ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse voltage	V _(BR)	(I _R = 0.1 mA)	40			V
Forward Voltage	V _F	(I _F = 500 mA)			0.47	V
Reverse Leakage	I _R	(V _R = 40 V)			100	μA

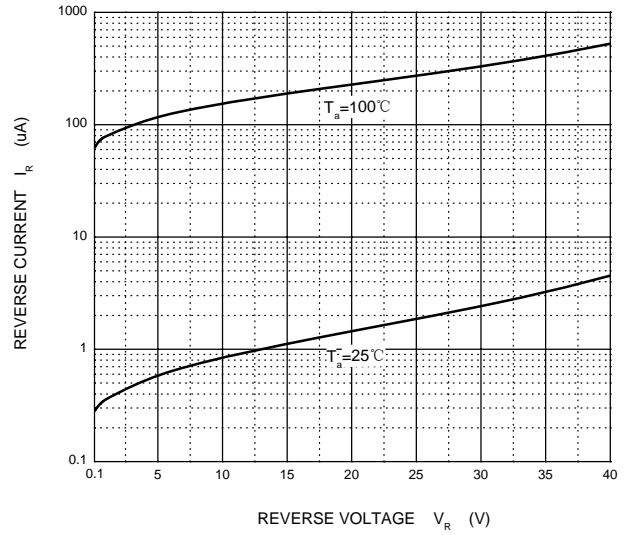
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Typical Characteristics

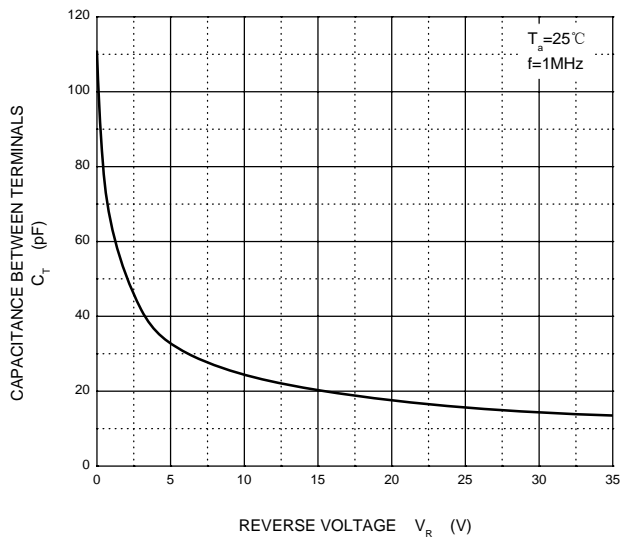
Forward Characteristics



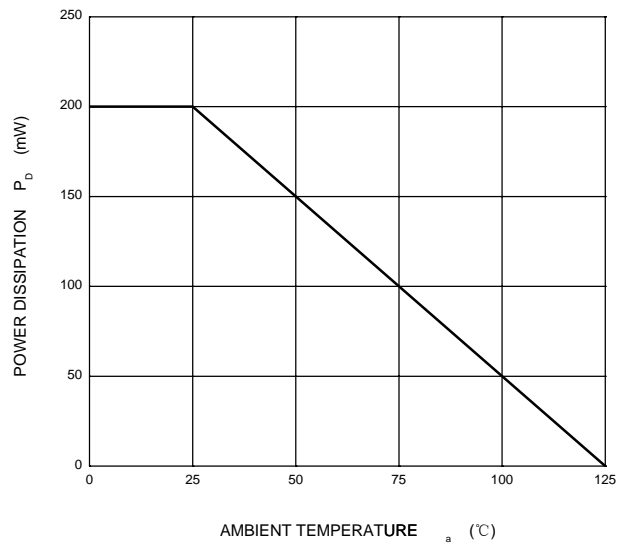
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

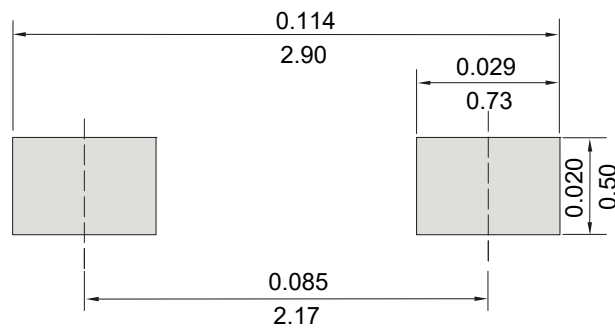


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MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
RB551V-40	SOD-323	7 Inch	3000