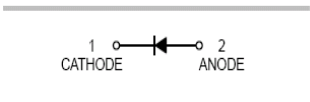


### Features

- High current rectifier schottky diode
- Low voltage
- Low inductance
- For power supply

HF



1 CATHODE 2 ANODE

### Application

- High frequency rectification

### Mechanical Data

- Case: SOD-323
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



RB551V-30  
SOD-323

### Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
RB551V-30	SOD-323	3000pcs / Tape & Reel	D

### Maximum Ratings (@ T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
DC Reverse Voltage	V <sub>R</sub>	20	V
Maximum Average Forward Output Current	I <sub>F(AV)</sub>	0.5	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I <sub>FSM</sub>	2	A

### Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance Junction-to-Air **1	R <sub>θJA</sub>	500	°C/W
Operating junction Temperature	T <sub>J</sub>	100	°C
Storage Temperature Range	T <sub>STG</sub>	-40 ~ +125	°C

**Electrical Characteristics** (@  $T_A = 25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage <sup>*2</sup>	$V_F$	$I_F = 100\text{mA}$	-	-	0.36	V
		$I_F = 500\text{mA}$	-	-	0.47	V
Maximum Peak Reverse Current	$I_R$	$V_R = 20\text{V}$	-	-	100	$\mu\text{A}$
Typical Junction Capacitance	$C_J$	$V_R = 0\text{V}, f = 1\text{MHz}$	-	-	120	pF

Notes:

1. Part mounted on FR-4 board with recommended pad layout
2. Pulse width  $\leq 380\mu\text{s}$ , Duty cycle  $< 2\%$

Ratings and Characteristic Curves (@  $T_A = 25^\circ\text{C}$  unless otherwise specified)

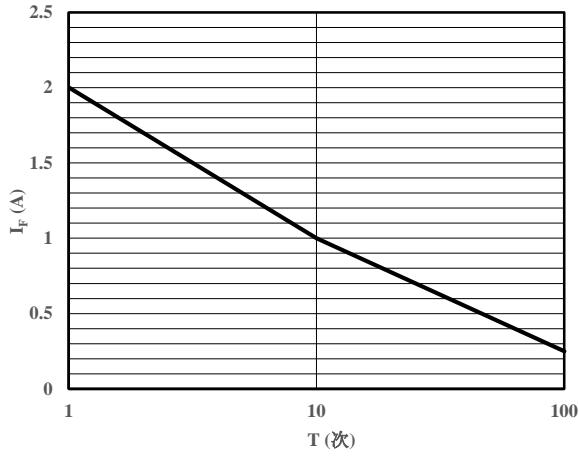


Fig 1 Peak Forward Surge Current

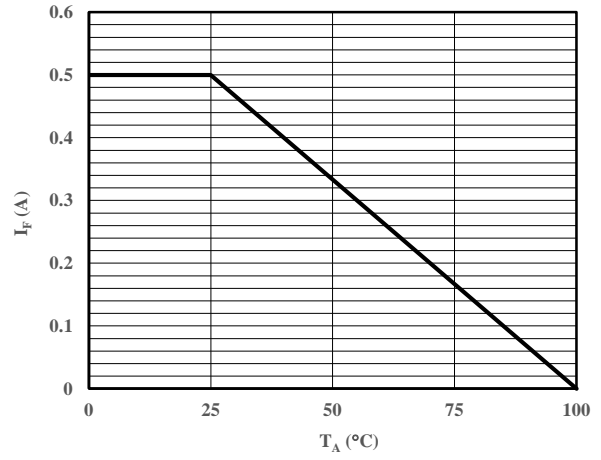


Fig 2 Current Derating Curve

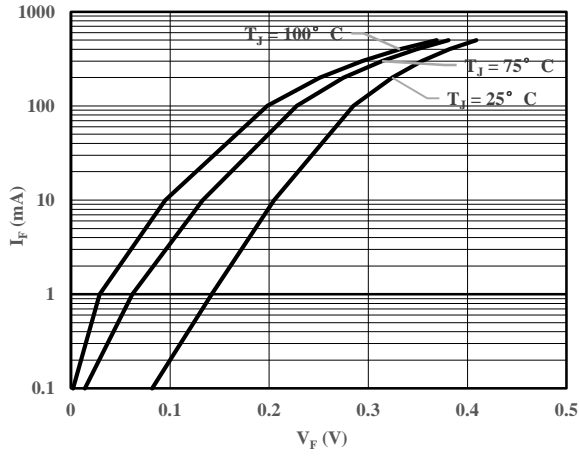


Fig 3 Typical Forward Characteristic

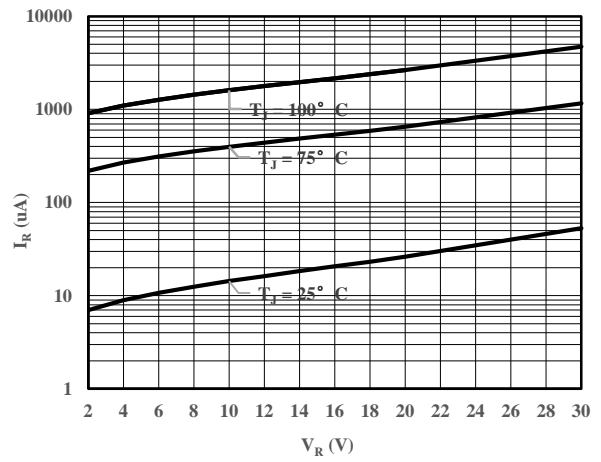


Fig 4 Typical Reverse Characteristic

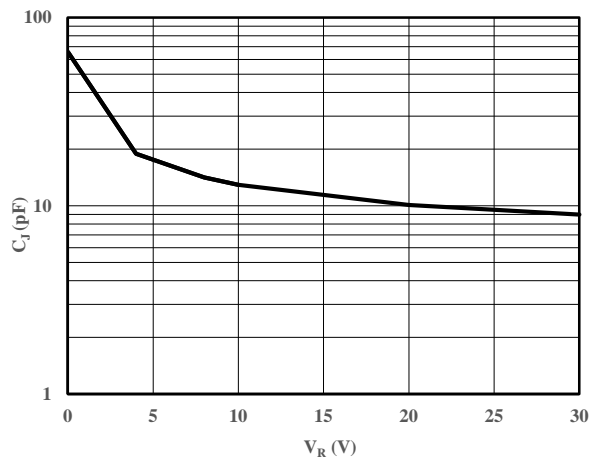
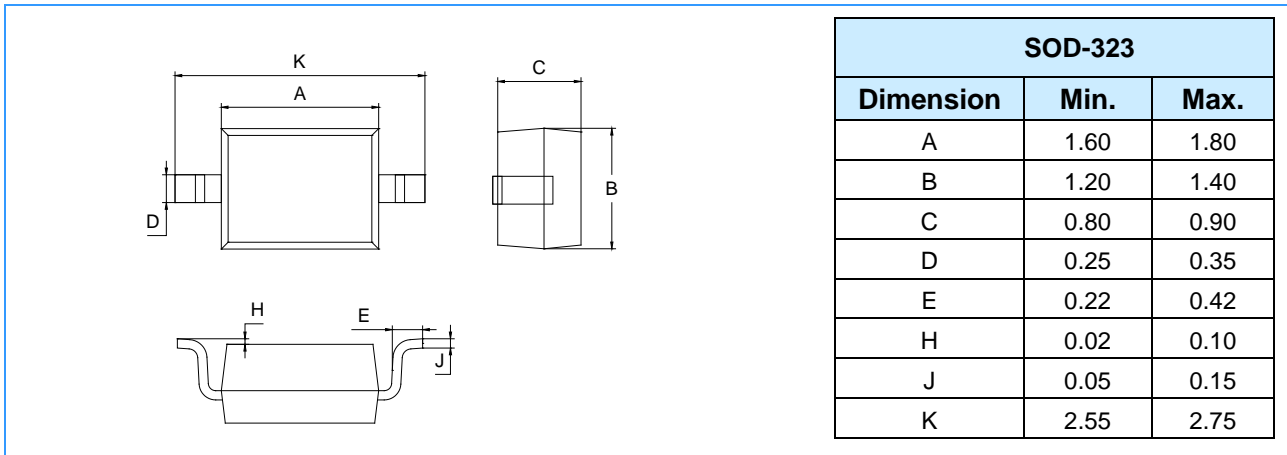
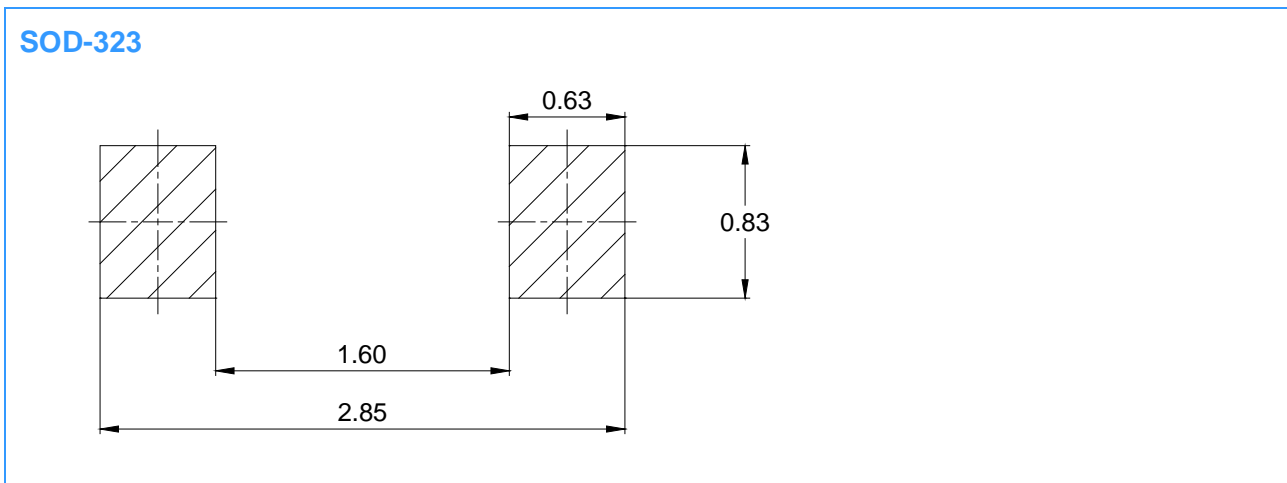


Fig 5 Typical Junction Capacitance

Package Outline Dimensions (Unit: mm)



Mounting Pad Layout (Unit: mm)



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