

## Descriptions

The RB551V-40 is schottky barrier diode, SOD-323 plastic package.

## Features

- Low positive pressure drop
- HF Product

## Applications

Schottky diode

## Equivalent Circuit & Pinning



SOD-323



PIN1:Cathode

PIN2:Anode

## Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Maximum recurrent peak reverse voltage	$V_{RM}$	40	V
Continuous forward current	$I_o$	500	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	25	A
Total power dissipation	$P_D$	200	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{stg}$	-55 ~ +150	°C

## Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	$V_F$	$I_F=0.5A$	0.47	V
Reverse Leakage Current	$I_R$	$V_R=40V$	0.1	mA

Electrical Characteristic Curve

Fig.1 Power Derating Curve

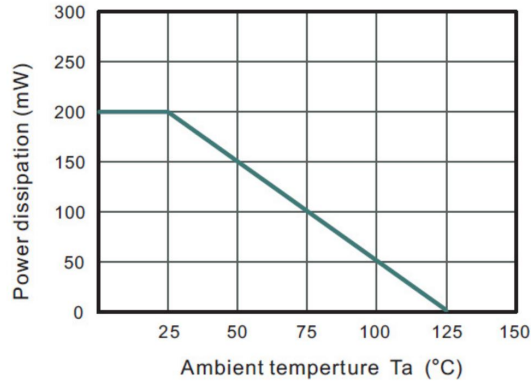


Fig.2 Typical Reverse Characteristics

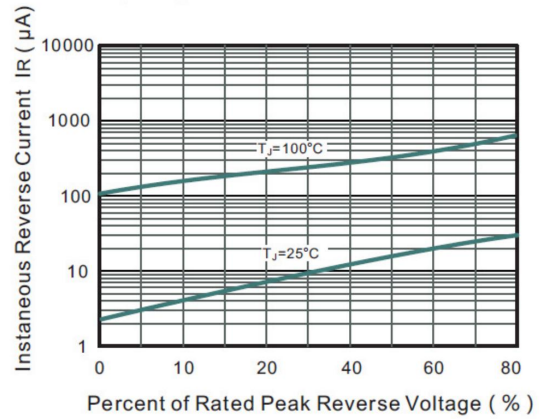


Fig.3 TYPICAL FORWARD VOLTAGE

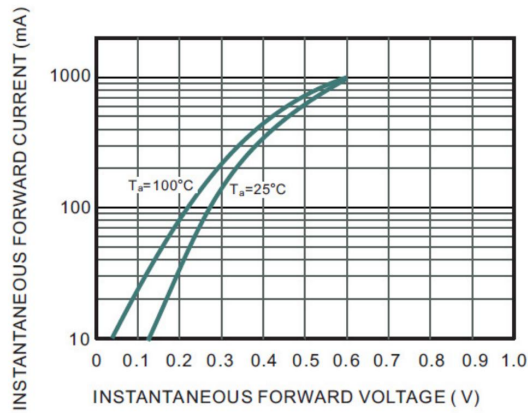


Fig.4 Typical Junction Capacitance

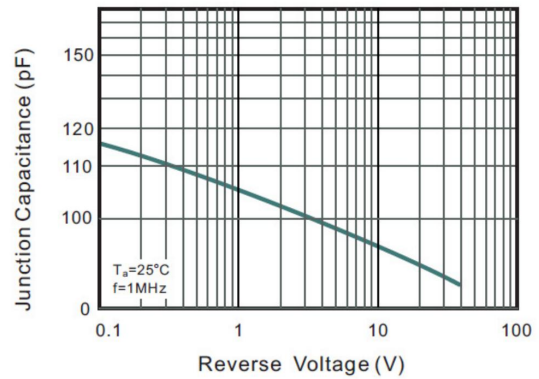
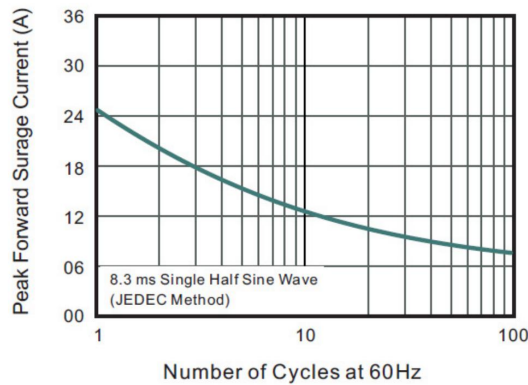
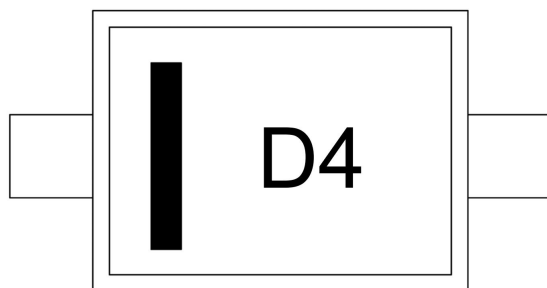


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



**Marking Instructions**



D4 = Marking Code

**Packaging SPEC**

REEL

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7" x8	180×120×180	390×385×205

Package Outline Dimensions

Unit: mm

尺寸 符号	SOD-323	
	min	max
A	0.80	1.15
A1	0.00	0.20
b	0.25	0.40
C	0.08	0.18
D	1.20	1.40
E	1.40	1.80
HE	2.50	2.80
L	0.20	0.45

PIN: 1.CATHODE 2.ANODE

SOD-323