

# EVVOSEMI<sup>®</sup>

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

## Product Specification

▶ Domestic	Part Number	RB551V-30
▶ Overseas	Part Number	RB551V-30
▶ Equivalent	Part Number	RB551V-30

EV is the abbreviation of name EVVO

## ■ SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

### ■ Features

- Small surface mounting type
- Ultra low  $V_F$
- High reliability

### ■ Applications

- High frequency rectification switching regulation

### ■ Marking

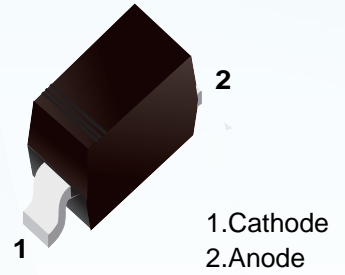
Marking	D
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### ■ Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	30	V
DC Reverse Voltage	$V_R$	20	V
Mean Rectifying Current	$I_O$	0.5	A
Peak Forward Surge Current (60 Hz for 1 Cyc.)	$I_{FSM}$	2	A
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 40 to + 125	$^\circ\text{C}$

### ■ Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$ at $I_F = 500\text{ mA}$	$V_F$	0.36 0.47	V
Reverse Current at $V_R = 20\text{ V}$	$I_R$	100	$\mu\text{A}$



### ■ Simplified outline(SOD-323)

Top View

Note: ESD sensitive product handling required.

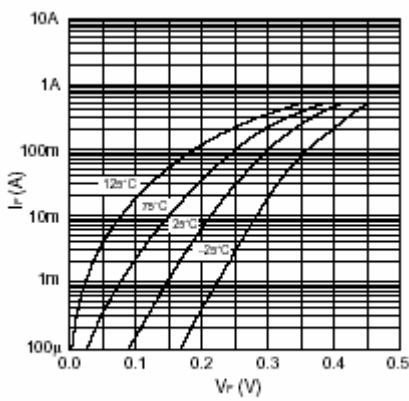


Fig.1 Forward characteristics

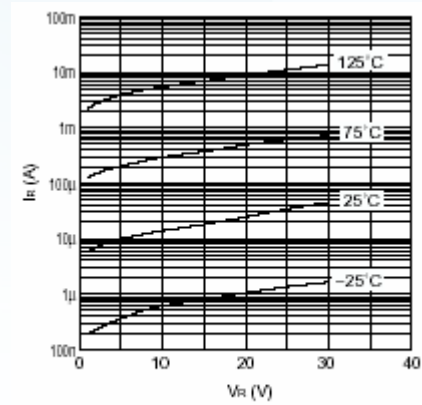


Fig.2 Reverse characteristics

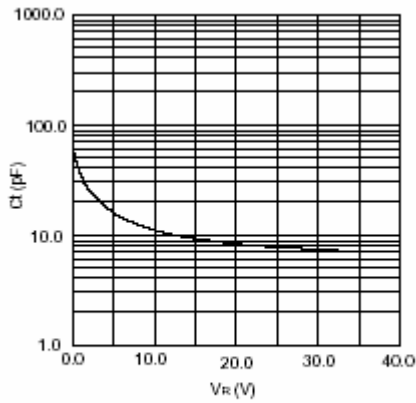


Fig.3 Capacitance between terminals characteristics

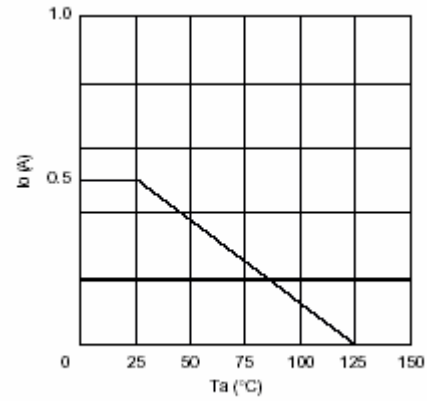
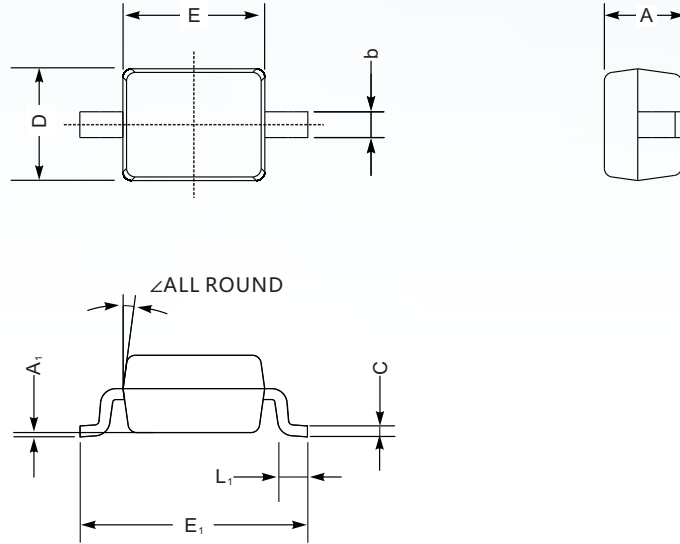


Fig.4 Derating curve

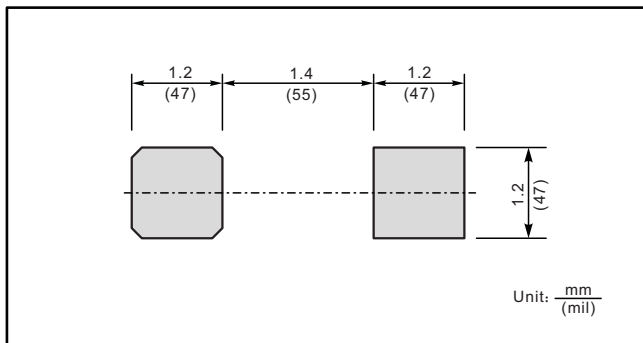
■ SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E <sub>1</sub>	b	L <sub>1</sub>	A <sub>1</sub>	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

■ The recommended mounting pad size



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