

■ SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

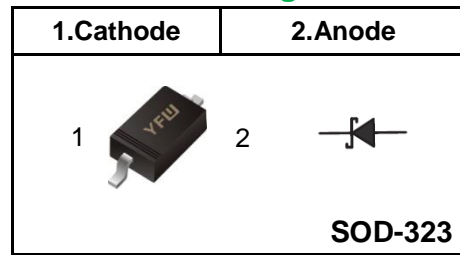
**Features**

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

**Applications**

- High frequency rectification switching regulation

**Pinning**



**Marking Code**

<b>RB551V-30</b>	<b>D</b>
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**Absolute Maximum Ratings**  $T_a = 25^\circ\text{C}$

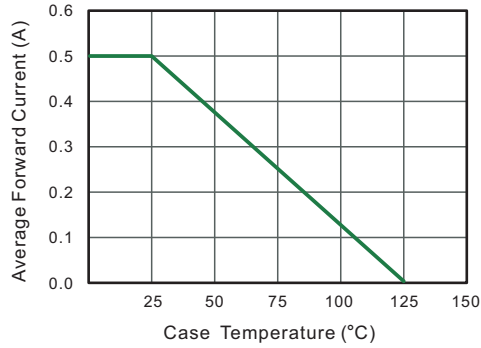
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	30	V
DC Reverse Voltage	$V_R$	20	V
Mean Rectifying Current	$I_O$	0.5	A
Peak Forward Surge Current (60 Hz for 1 Cyc.)	$I_{FSM}$	2	A
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 40 to + 125	$^\circ\text{C}$

**Characteristics**  $T_a = 25^\circ\text{C}$

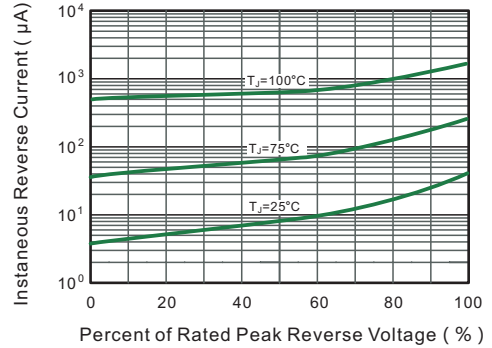
Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$ at $I_F = 500\text{ mA}$	$V_F$	0.36 0.47	V
Reverse Current at $V_R = 20\text{ V}$	$I_R$	100	$\mu\text{A}$

Note: ESD sensitive product handling required.

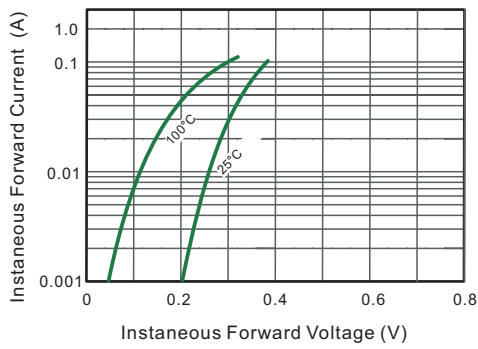
**Fig.1 Forward Current Derating Curve**



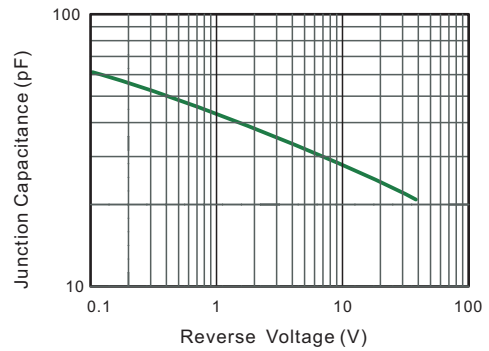
**Fig.2 Typical Reverse Characteristics**



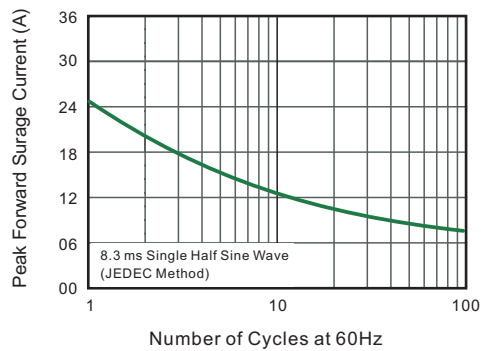
**Fig.3 Typical Forward Characteristic**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Ordering information**

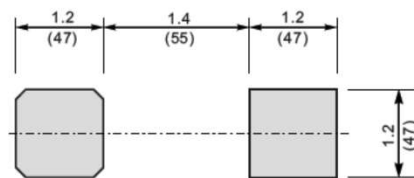
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

**Package Dimensions**

**SOD-323**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

**The recommended mounting pad size**



Unit:  $\frac{\text{mm}}{\text{mil}}$

## Disclaimer

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