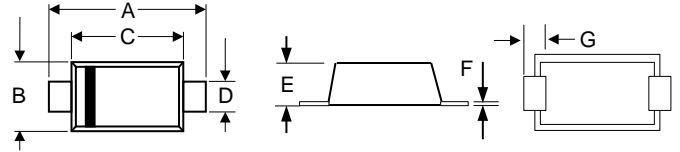


## Features

- \* Small surface mounting type
- \* Ultra low  $V_F$
- \* High reliability
- \* High frequency rectification switching regulation
- \* Marking Code: "SA"



RoHS  
COMPLIANT



SOD-323F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.091	0.110	2.30	2.80
B	0.045	0.053	1.15	1.35
C	0.063	0.071	1.60	1.80
D	0.010	0.016	0.25	0.40
E	0.031	0.043	0.80	1.10
F	0.004	0.006	0.10	0.15
G	0.016	0.024	0.41	0.61

## Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)

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	$T_{stg}$	- 40 to + 125	$^\circ\text{C}$

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Forward Voltage at I <sub>F</sub> = 100 mA at I <sub>F</sub> = 500 mA	V <sub>F</sub>	0.36 0.47	V
Reverse Current at V <sub>R</sub> = 20 V	I <sub>R</sub>	100	μA

Note: ESD sensitive product handling required.

### Ratings and Characteristic Curves

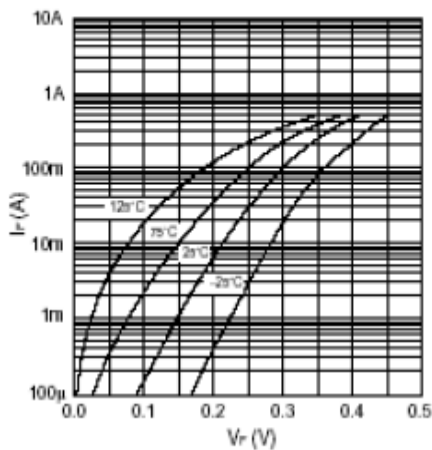


Fig.1 Forward characteristics

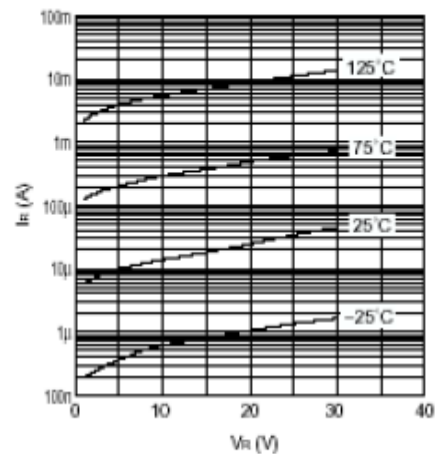


Fig.2 Reverse characteristics

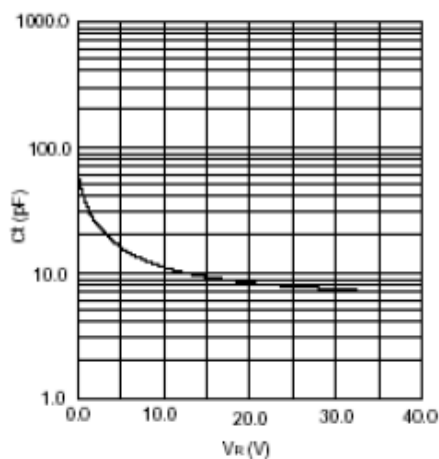


Fig.3 Capacitance between terminals characteristics

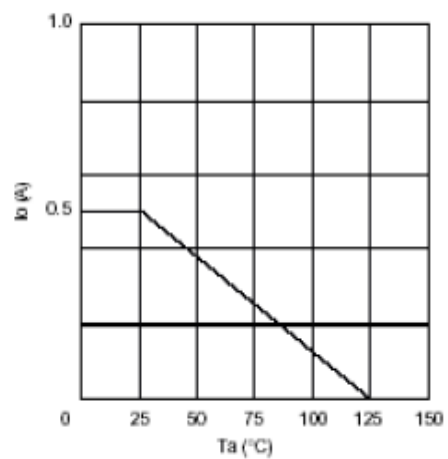


Fig.4 Derating curve



**RB551V-30**  
*Silicon Epitaxial Planar Schottky Barrier Diode*

**Ordering Information**

<b>Part No.</b>	<b>Package</b>	<b>Packing Code</b>	<b>Packing</b>
RB551V-30	SOD-323F	R30	3000pcs/Reel

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