



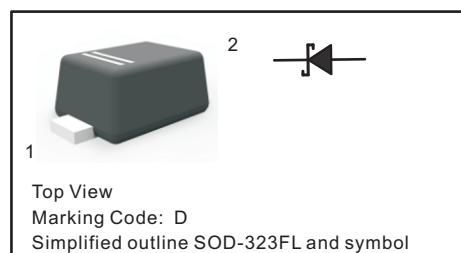
## SCHOTTKY BARRIER RECTIFIERS

### FEATURES

- Metal silicon junction, majority carrier conduction
- Guarding for overvoltage protection
- Low power loss, high efficiency
- High current capability
- low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### MECHANICAL DATA

- Case: SOD-323FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 4.5mg / 0.00016oz

### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	RB551VFL-30	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
DC Reverse Voltage	$V_R$	30	V
Maximum Average Forward Current at $T_a=25^\circ C$	$I_o$	0.5	A
Power dissipation	$P_d$	200	mW
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	25	A
Maximum Instantaneous Forward Voltage	$V_F$	0.36 @ $I_F=100mA$ 0.47 @ $I_F=500mA$	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	100 @ $V_R=20V$	uA
Storage and Operating Junction Temperature Range	$T_j, T_{stg}$	-55 ~ +125	°C



Fig.1 Forward Current Derating Curve

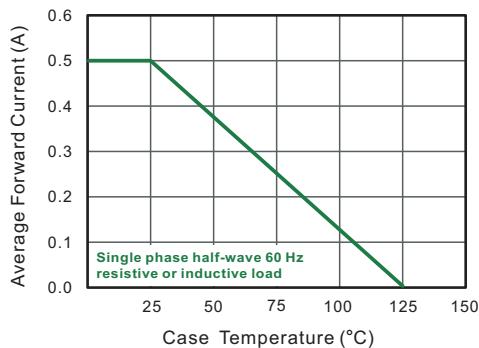


Fig.2 Typical Reverse Characteristics

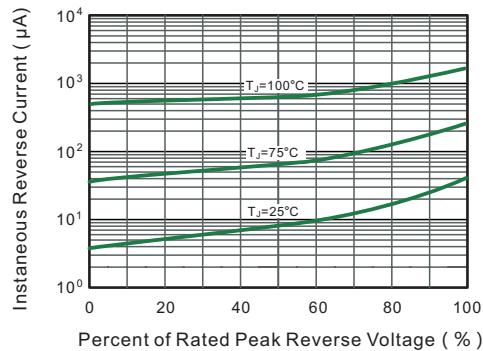


Fig.3 Typical Forward Characteristic

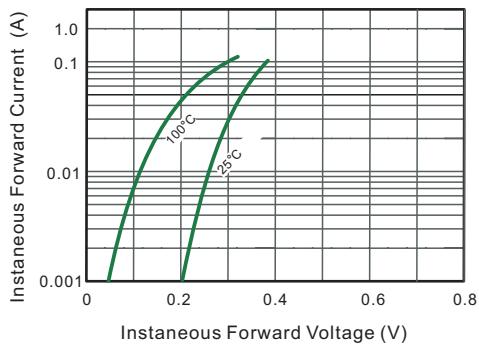


Fig.4 Typical Junction Capacitance

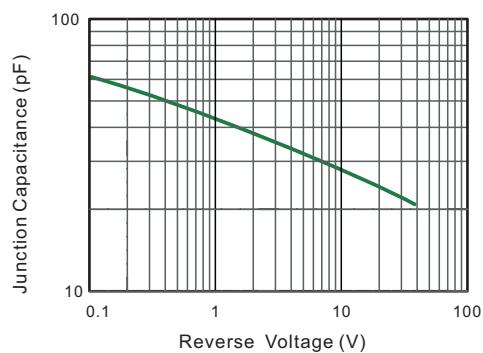
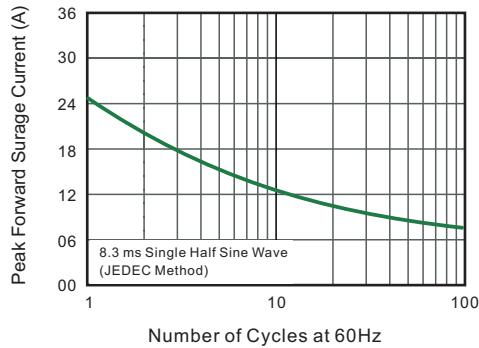


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

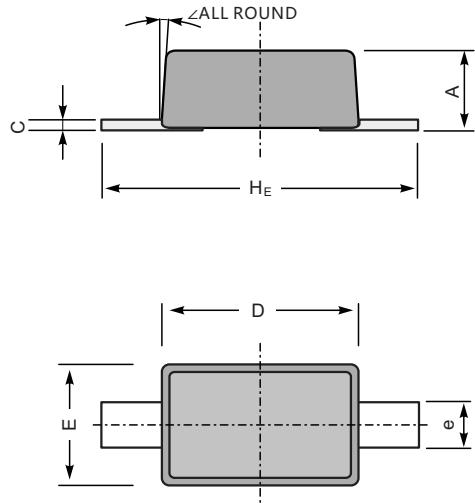




## PACKAGE OUTLINE

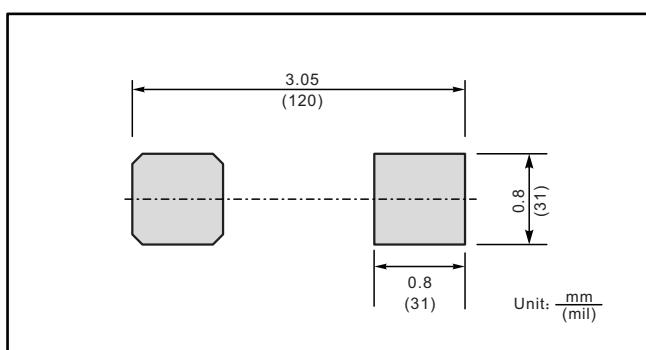
Plastic surface mounted package; 2 leads

SOD-323FL



UNIT		A	C	D	E	e	H <sub>E</sub>	∠
mm	max	1.0	0.25	1.8	1.35	0.4	2.7	8°
	min	0.8	0.05	1.6	1.15	0.25	2.3	
mil	max	39	9.8	71	53	18	106	8°
	min	31	2.0	63	45	10	91	

### The recommended mounting pad size



### Marking

Type number	Marking code
RB551VFL-30	D