LITE-ON SEMICONDUCTORS

RB551V-30F

SURFACE MOUNT
SCHOTTKY BARRIER DIODE

REVERSE VOLTAGE – 30 Volts
FORWARD CURRENT – 0.5 Ampere

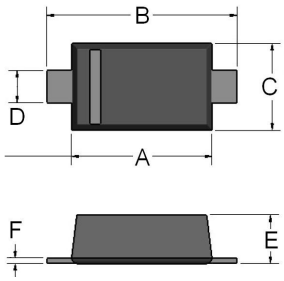
FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-323F Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

MECHANICAL DATA

- Case: SOD-323F Plastic

SOD-323F



SOD-323F		
DIM.	MIN.	MAX.
A	1.60	1.80
B	2.30	2.70
C	1.15	1.35
D	0.25	0.40
E	0.80	1.00
F	0.05	0.25
All Dimensions in millimeter		

Maximum Ratings & Thermal Characteristics @ T_A = 25℃ unless otherwise specified

Characteristic	Symbol	RB551V-30F	Units
Power Dissipation	P_D	200	mW
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Peak Forward Surge Current @ tp=8.3ms	I_{FSM}	5	A
Maximum DC Blocking Voltage	V_R	20	V
Average Forward Rectified Current	$I_{F(AV)}$	500	mA
Operating Temperature Range	T_J	+125	℃
Storage Temperature Range	T_{STG}	-65~+125	℃

Electrical Characteristics @ T_A = 25℃ unless otherwise specified

Characteristic	Test Condition	Symbol	RB551V-30F	Unit
Breakdown Voltage	IR=500μA	B_V	30	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V_R = 20V	I_R	100	uA
Maximum DC Forward Voltage	I_F=100mA I_F=500mA	V_F	0.360 0.470	V

These ratings are limiting values above which the serviceability of the diode may be impaired.

RATING AND CHARACTERISTIC CURVES
RB551V-30F

FIG.1-TYPICAL FORWORD CHARACTERISTICS

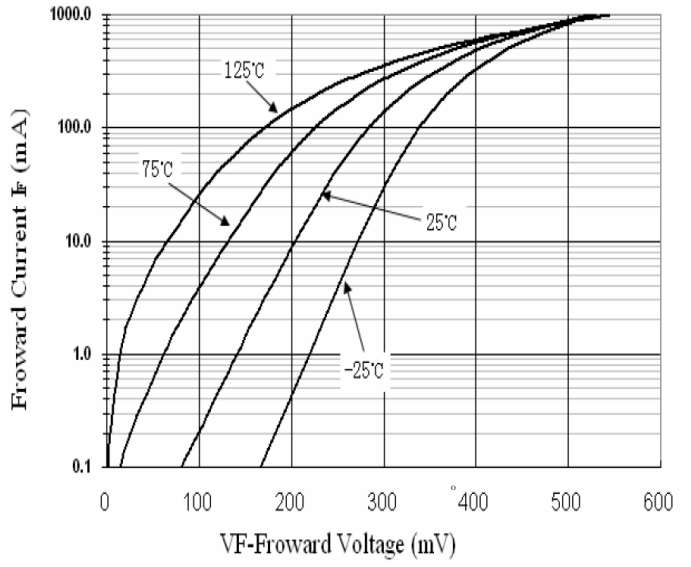


FIG.2-TYPICAL REVERSE CHARACTERISTICS

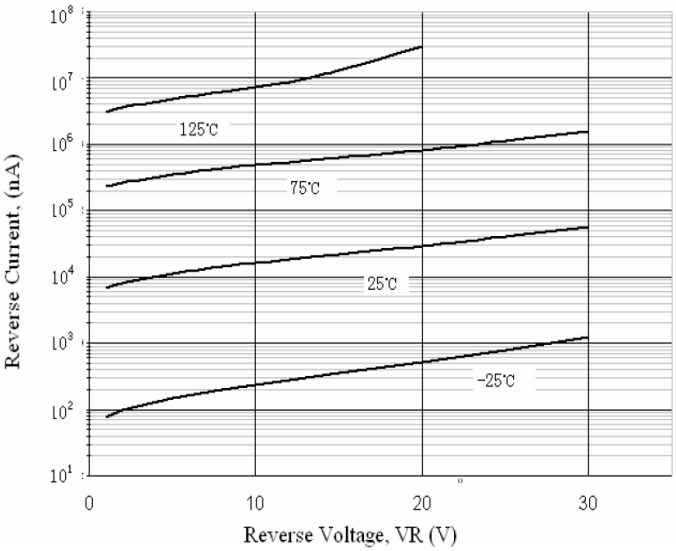
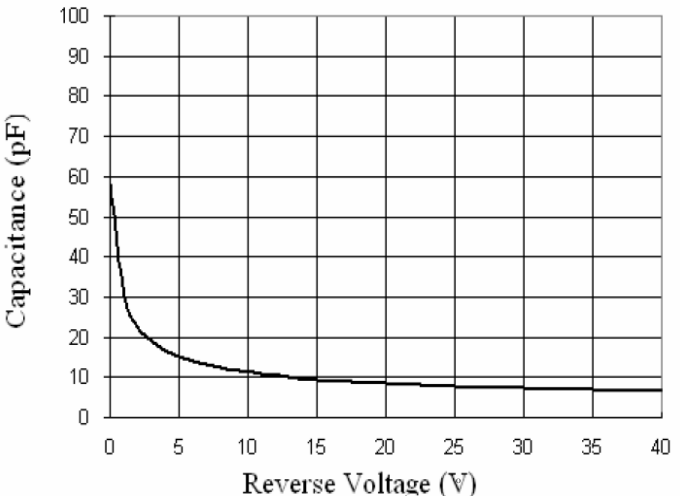


FIG.3-TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB551V-30F	B3	1 ○—▶|—○ 2

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