

RB551M3-30 Schottky Barrier Diode

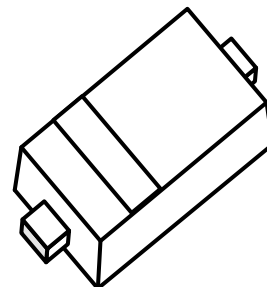
Feature

- Small Power Mold Type
- Low VF
- Low IR
- High Reliability

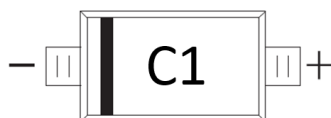
Application

- High Frequency Inverters
- Free Wheeling
- Polarity Protection Applications

SOD-323F



MARKING:



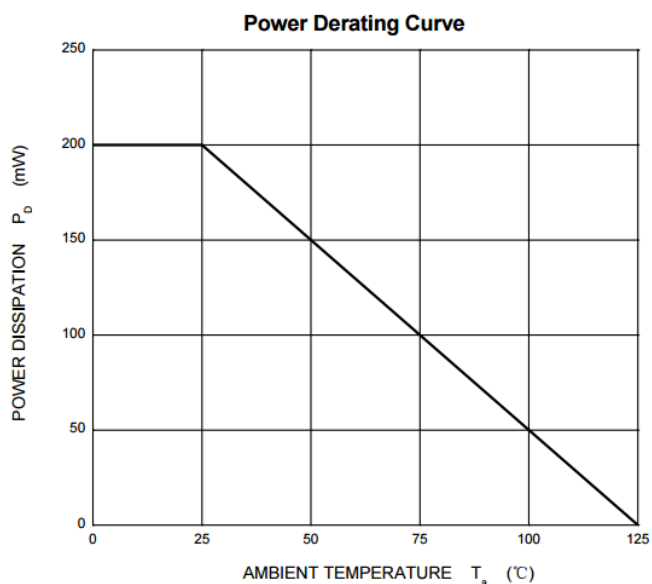
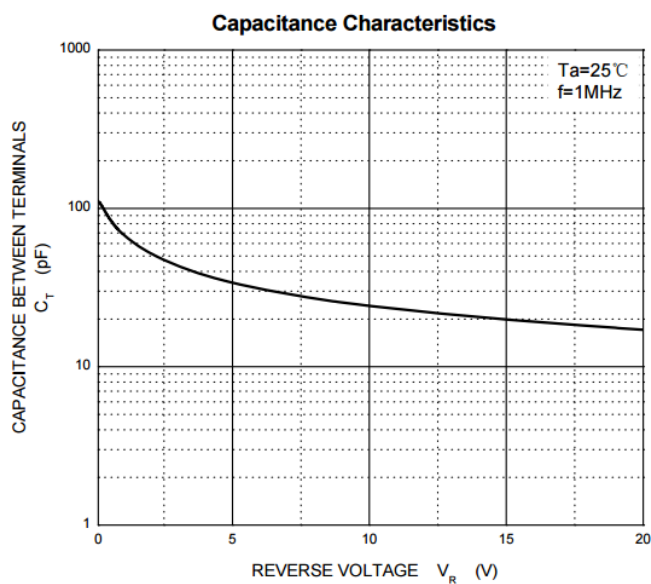
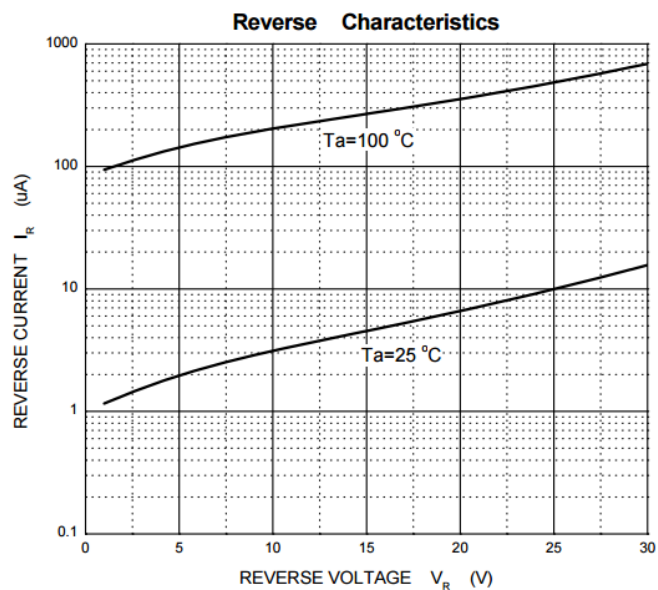
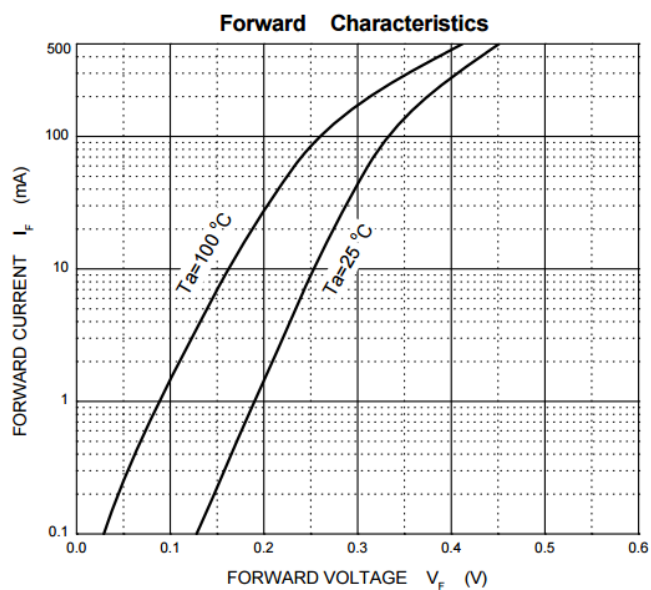
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	0.5	A
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2	A
Power Dissipation	P_D	0.2	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^{\circ}\text{C/W}$
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +125	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

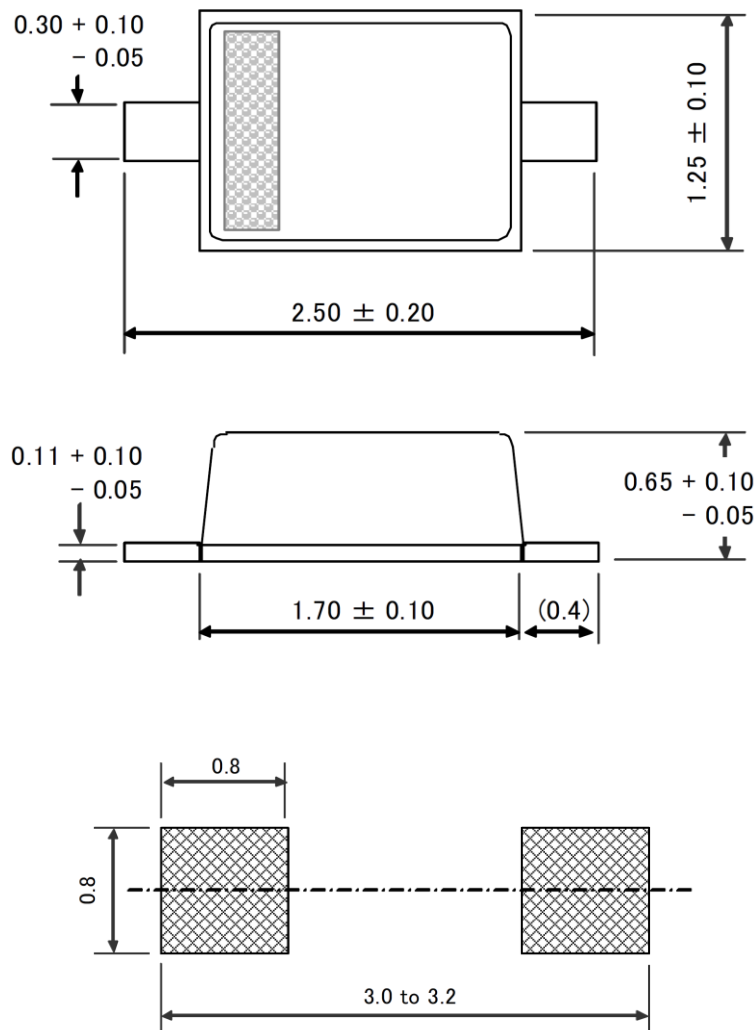
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	$I_R=500\mu\text{A}$	30			V
Forward voltage	V_F	$I_F=0.1\text{A}$			0.36	V
		$I_F=0.5\text{A}$			0.47	V
Reverse current	I_R	$V_R=20\text{V}$			100	μA
Diode capacitance	C_D	$V_R=4\text{V}, f=1\text{MHz}$		20		pF

Typical Characteristics



SOD-323F Package Outline Dimensions

(Unit : mm)



Land Pattern Recommendation