

RB160M-30 Schottky Barrier Diode

Feature

- Small Power Mold Type
- Low IR
- High Reliability

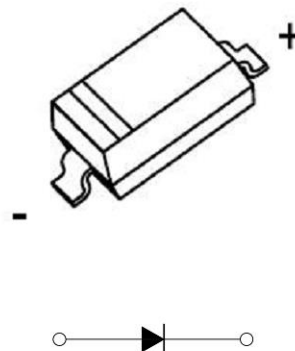
Application

- High Frequency Inverters
- Free Wheeling
- Polarity Protection Applications

MARKING:



SOD-123



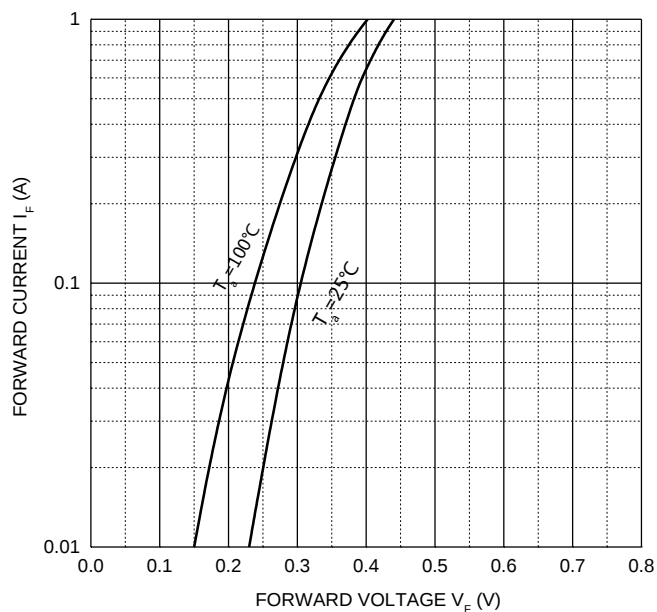
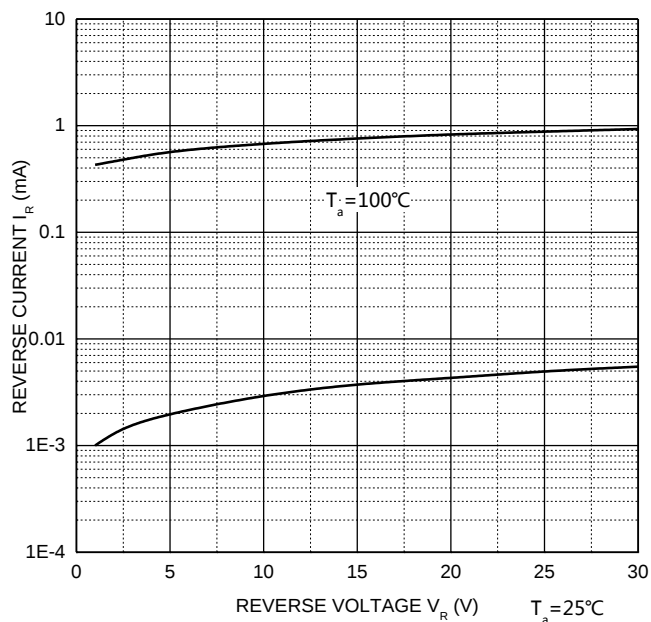
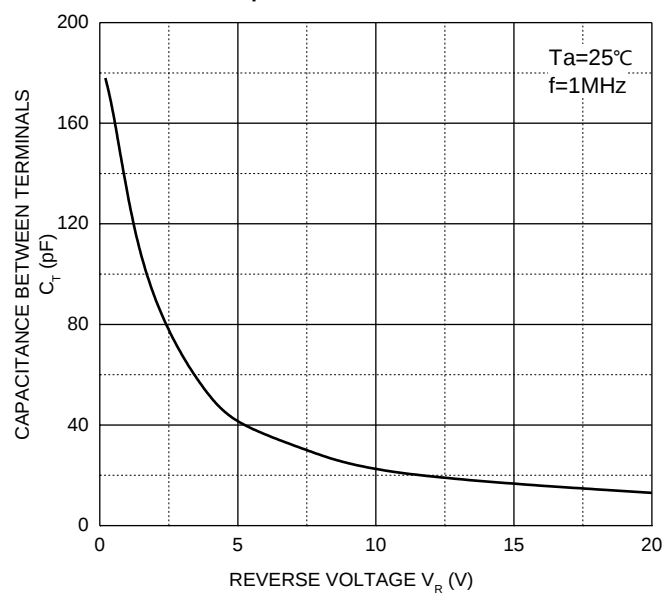
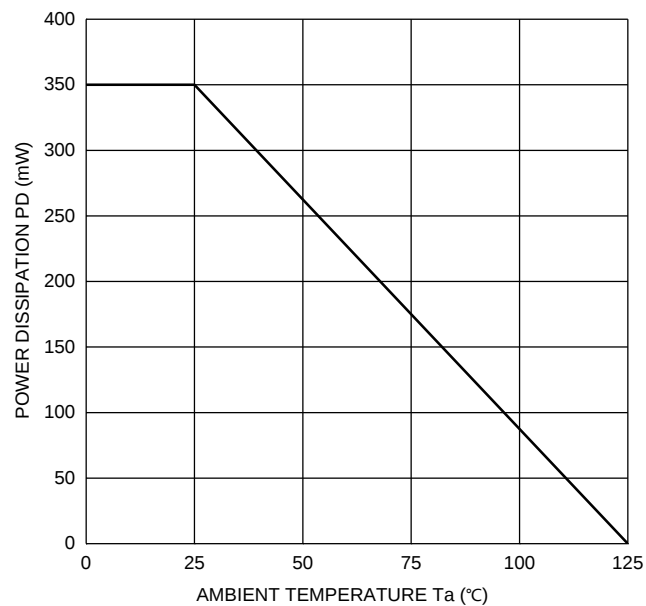
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

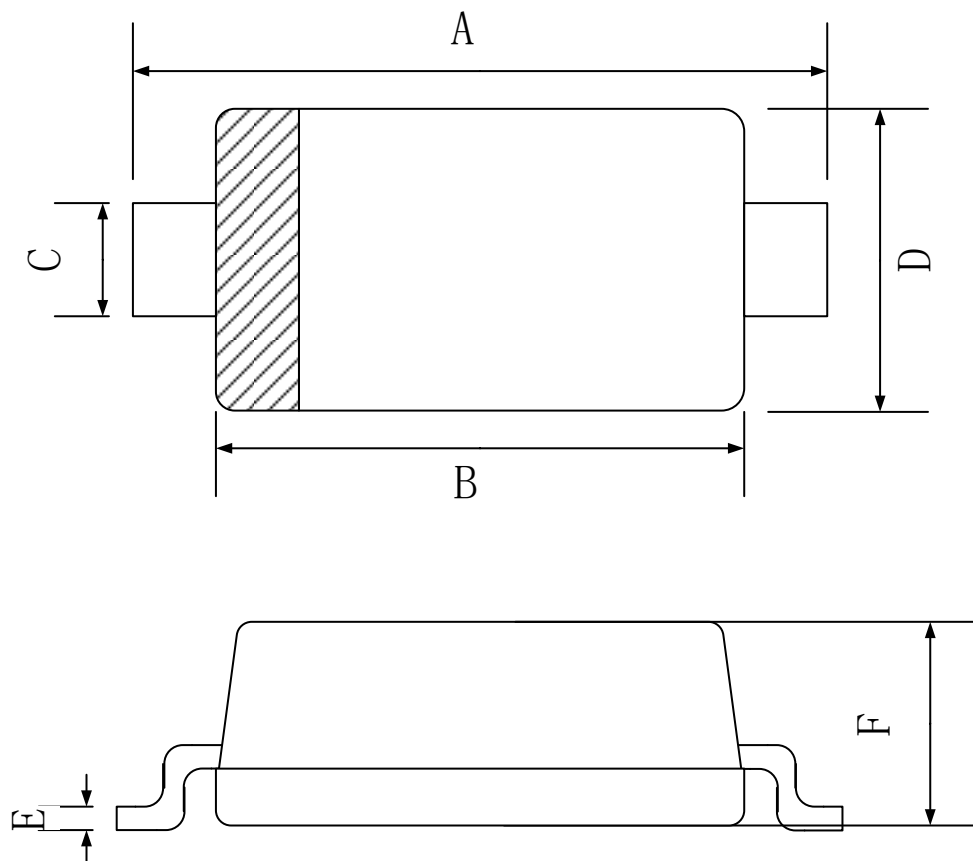
Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	1	A
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	15	A
Power Dissipation	P_D	0.35	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	285	$^{\circ}\text{C/W}$
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

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

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	$I_R=250\mu\text{A}$	30			V
Forward voltage	V_F	$I_F=0.5\text{A}$	0	0.38	0.45	V
		$I_F=1.0\text{A}$	0	0.43	0.48	V
Reverse current	I_R	$V_R=15\text{V}$		2	20	μA
		$V_R=30\text{V}$		5	50	μA
Diode capacitance	C_D	$V_R=4\text{V}, f=1\text{MHz}$		50		pF

Typical Characteristics

Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve


SOD-123 Package Outline Dimensions


Symbol	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	3.45	3.65	3.85
B	2.55	2.65	2.75
C	0.45	0.55	0.65
D	1.50	1.60	1.70
E	0.09	0.105	0.12
F	0.95	1.15	1.35