

Schottky Barrier Diode

Applications

◆General rectification

Features

◆Small power mold type. (PMDU)

◆Low I_R .

◆High reliability

Construction

◆Silicon epitaxial planer

Pinning

1.Cathode	2.Anode
	
SOD-123FL	

Marking Code

RB160M-30	73
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Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

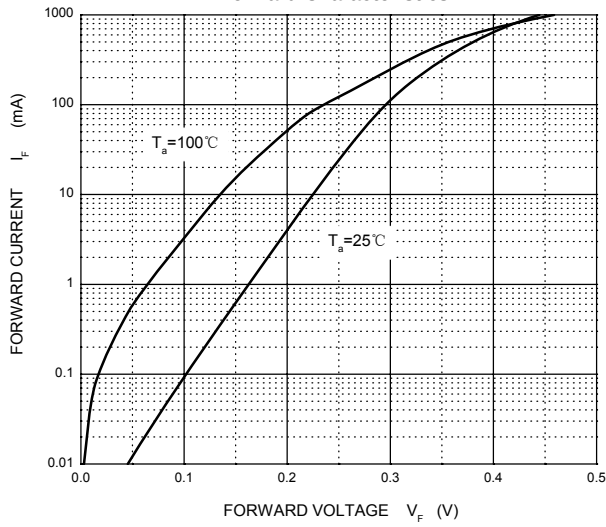
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	1	A
Forward current surge peak (60Hz / 1cyc)	I_{FSM}	30	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

(*1) Mounted on epoxy board. 180° Half sine wave

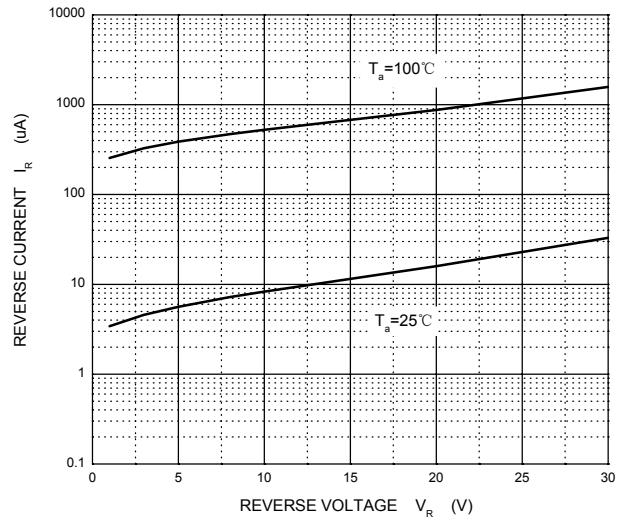
Electrical characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.39	0.46	V	$I_F = 0.5\text{A}$
	V_{F2}	-	0.43	0.48	V	$I_F = 1.0\text{A}$
Reverse current	I_{R1}	-	3.0	20	μA	$V_R = 15\text{V}$
	I_{R2}	-	9.0	50	μA	$V_R = 30\text{V}$

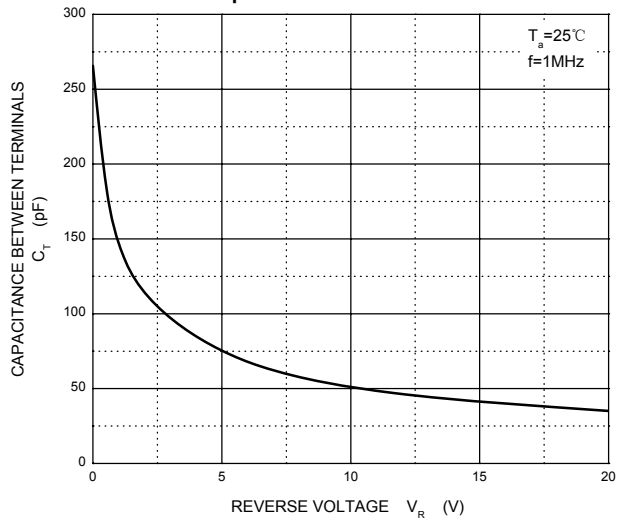
Forward Characteristics



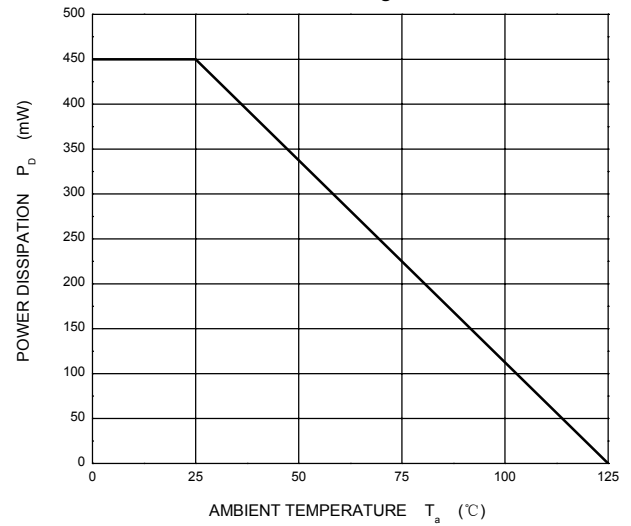
Reverse Characteristics



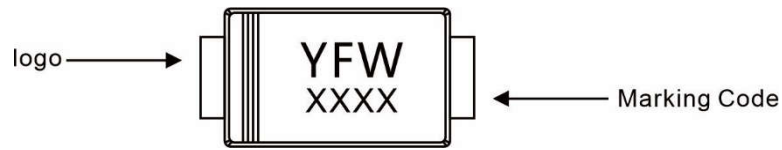
Capacitance Characteristics



Power Derating Curve



Marking Diagram



Ordering information

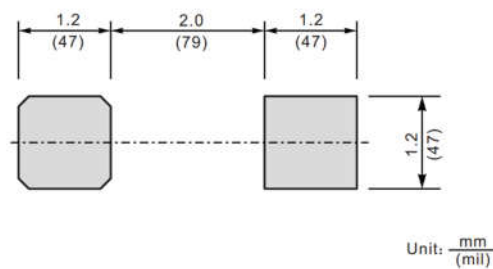
Package	Packing Description	Packing Quantity
SOD-123FL	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123FL

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	43
C	0.12	0.20	4.7	7.9
D	2.6	2.9	102	114
E	1.7	1.9	67	75
e	0.8	1.1	31	43
g	0.7	0.9	28	35
HE	3.5	3.8	138	150
∠	7°			

The recommended mounting pad size



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