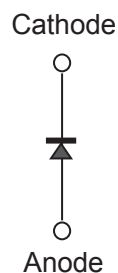


Schottky Diodes

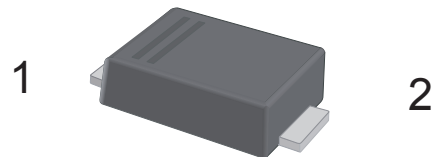
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■ Features

- Small power mold type(PMDS)
- High reliability
- Low I_R



SOD-123FL



Top View

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	30	V
Reverse Voltage	V_R	30	
Average Forward Rectified Current	I_o	2	A
Non-Repetitive Forward Current Surge Peak (Note.1)	I_{FSM}	55	
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-40 to 150	

Note.1: 60Hz half sin wave, one cycle,non-repetitive at $T_J=25^\circ\text{C}$ ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu\text{A}$	30			V
Forward voltage	V_F	$I_F = 1\text{A}$	0.32		0.45	
		$I_F = 2\text{A}$	0.36		0.49	
Reverse voltage leakage current	I_R	$V_R = 30\text{V}$			50	μA
ESD break down voltage	ESD	$C = 200\text{pF}$, $R = 0\Omega$ forward and reverse : 1 time	7			KV

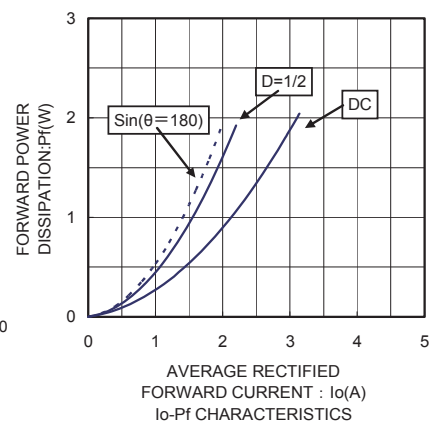
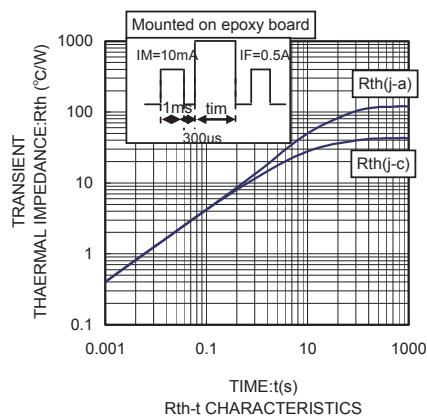
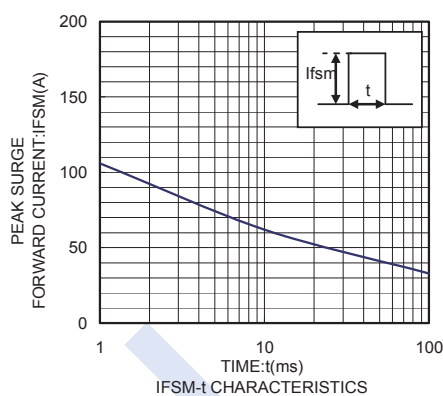
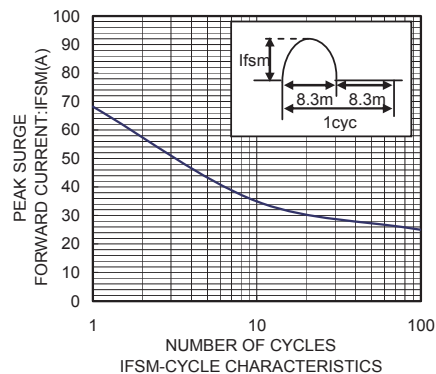
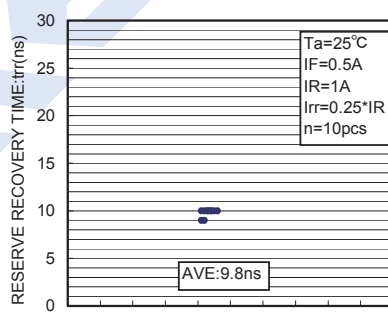
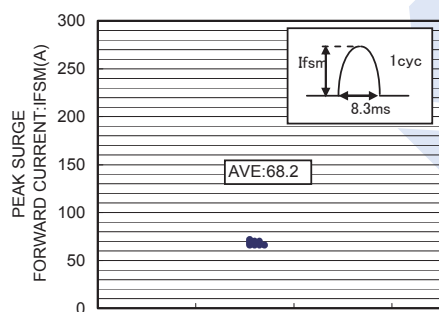
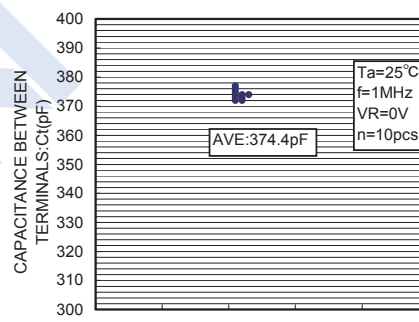
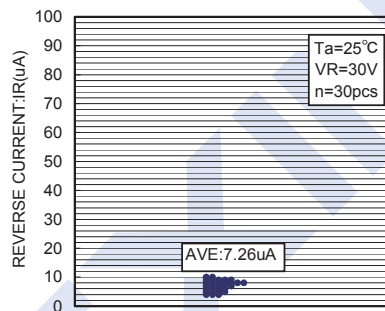
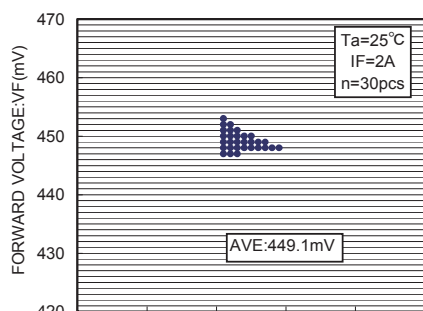
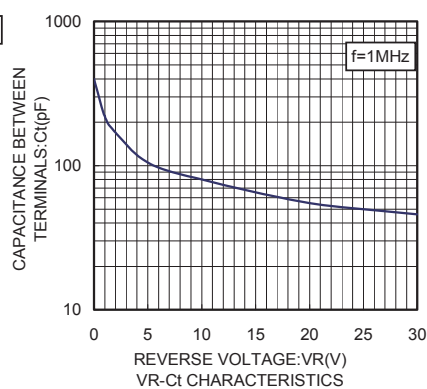
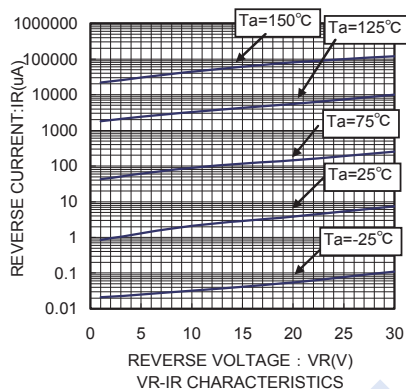
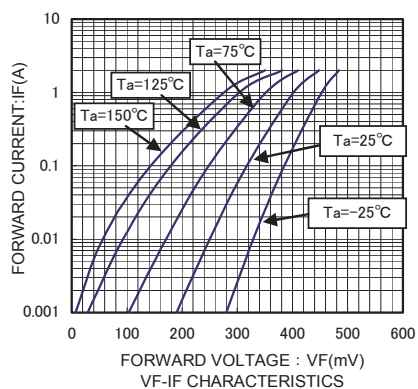
■ Marking

Marking	85
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Schottky Diodes

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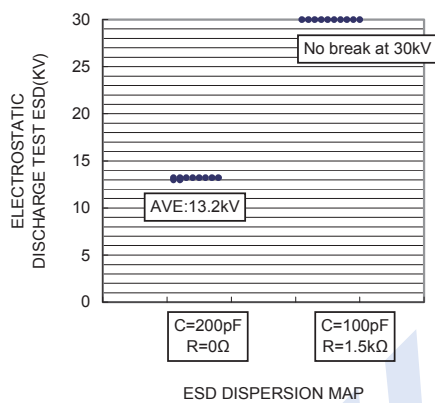
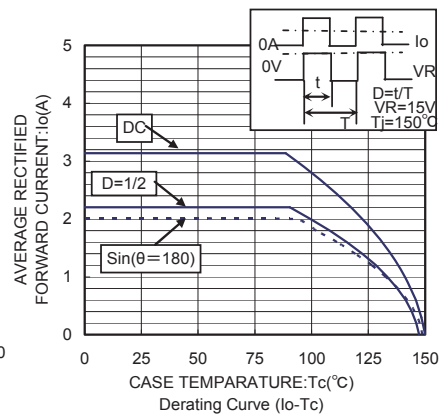
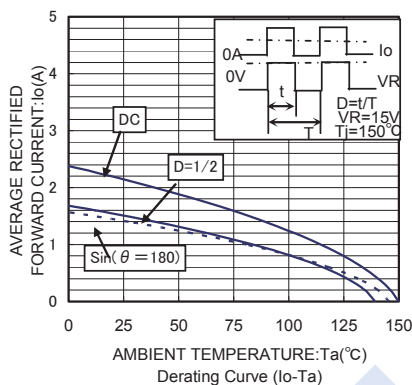
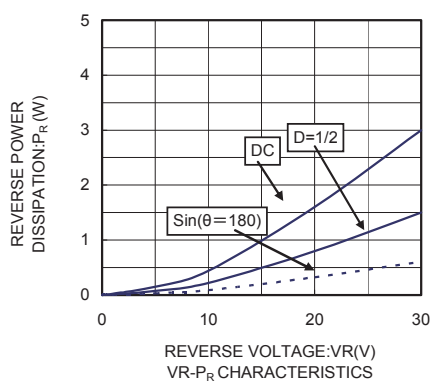
■ Typical Characteristics



Schottky Diodes

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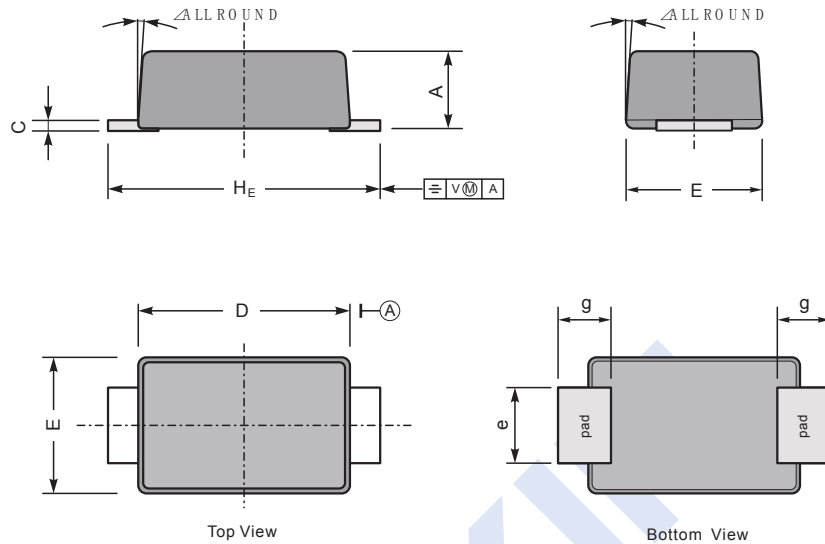
■ Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



UNIT		A	C	D	E	e	g	H _E	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size

