FF12MW

Surface Mount Fast Recovery Rectifiers Reverse Voltage - 1000 V

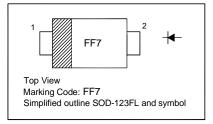
Forward Current - 1.2 A

Features

• Fast reverse recovery time

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.2	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50	А
Maximum Instantaneous Forward Voltage at 1.2 A	V_{F}	1.3	V
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Blocking Voltage $T_a = 125^{\circ}C$	I _R	5 50	μΑ
Maximum Reverse Recovery Time 1)	t _{rr}	120	ns
Typical Junction Capacitance 2)	C _j	15	pF
Operating and Storage Temperature Range	T_{j},T_{stg}	- 55 to + 150	$^{\circ}$

 $^{^{1)}}$ Measured with $I_{\text{F}}\!=0.5$ A, $I_{\text{R}}\!=1$ A, $I_{\text{rr}}\!=0.25$ A



 $^{^{\}rm 2)}\,\rm Measured$ at 1MHz and applied reverse voltage of 4V D.C

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Electrical characteristic curves

Fig.1 Forward Current Derating Curve

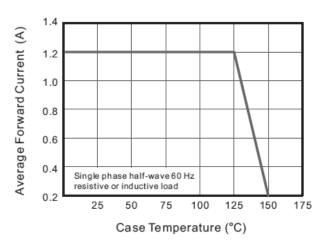


Fig.3 Typical Instaneous Forward Characteristics

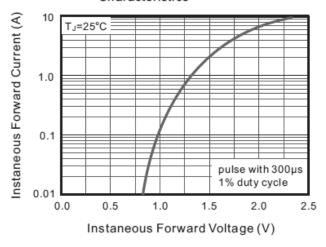


Fig. 5 Maximum Non-Repetitive Peak Forward Surage Current

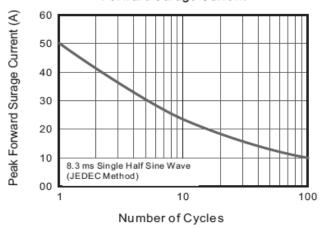


Fig.2 Typical Reverse Characteristics

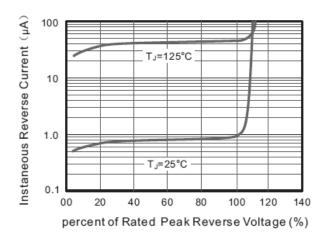
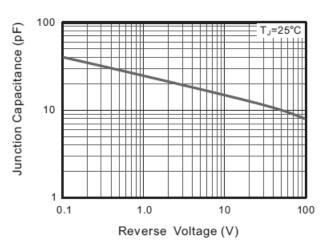


Fig.4 Typical Junction Capacitance

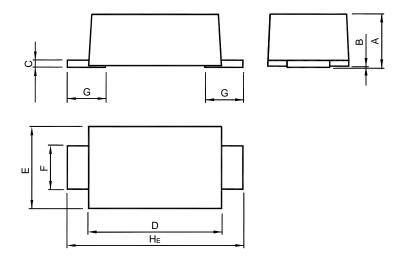




PACKAGE OUTLINE

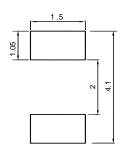
Plastic surface mounted package; 2 leads

SOD-123FL



	UNIT	Α	В	С	D	Е	F	G	H _E
	mm	1.08	0.1	0.2	2.9	1.9	1.1	0.85	3.9
		0.88	U	0.1	2.7	1.7	0.8	0.45	3.5

Recommended Soldering Footprint



Packing information

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Packago	Tape Width	Pitch		Reel	Size			
Package	(mm)	mm	inch	mm	inch	Per Reel Packing Quantity		
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000		

Marking information

" III " = Cathode line

" FF7 " = Part No.

Font type: Arial



