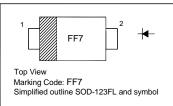
FR15MW

Surface Mount Fast Recovery Rectifiers

Reverse Voltage - 1000 V Forward Current - 1.5 A

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Maximum Ratings and Electrical characteristics

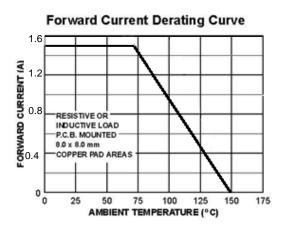
Ratings at 25°C ambient temperature unless otherwise specified.

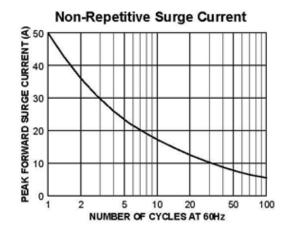
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

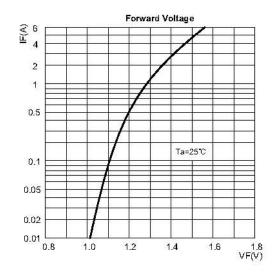
Parameter	Symbols	Value	Units	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V	
Maximum Average Forward Rectified Current at T _a = 65 °C	I _{F(AV)}	1.5	А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50	А	
Maximum Instantaneous Forward Voltage at 1.5 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}	500	ns	
Typical Junction Capacitance 2)	C _j	15	pF	
Operating and Storage Temperature Range	T_{j},T_{stg}	- 55 to + 150	℃	

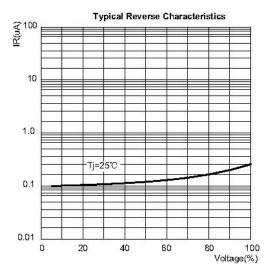
 $^{^{1)}}$ Measured with $I_F\!=0.5$ A, $I_R\!=1$ A, $I_{rr}\!=0.25$ A

²⁾ Measured at 1MHz and applied reverse voltage of 4V D.C





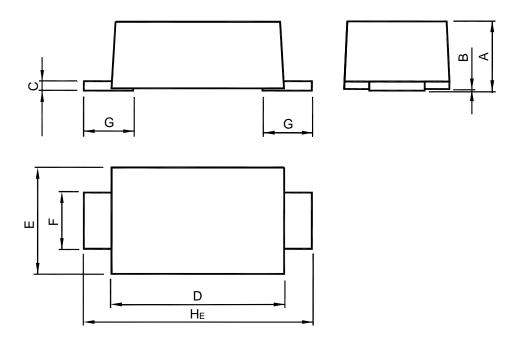




PACKAGE OUTLINE

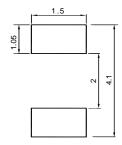
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	Α	В	С	D	Е	F	G	H _E
mm	1.08 0.88	0.1 0	0.2 0.1	2.9 2.6	1.9 1.7	1.1 0.8	0.9 0.7	3.9 3.5

Recommended Soldering Footprint



Packing information

Dookogo	Tape Width (mm)	Pitch		Reel Size		B B I B I : 0 ::
Package		mm	inch	mm	inch	Per Reel Packing Quantity
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

