ES1JW

ROHS

Surface Mount Superfast Recovery Rectifier

Features

- ◆ Easy pick and place
- ◆ For surface mounted applications
- ◆ Low profile package
- ◆ Built-in strain relief
- Superfast recovery times for high efficiency

Mechanical Data

◆ Case: SOD-123FL

◆ Quantity Per Reel: 3,000pcs

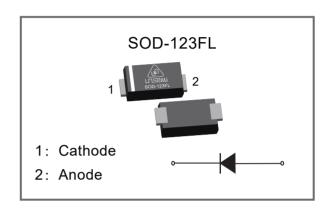
◆ Approx. Weight: 15mg/0.00048oz

◆ Terminals: Solderable per MIL-STD-750, Method 2026

◆ Device Marking: E1J



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Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter		Symbol	Value	Units
Maximum Repetitive Peak Reverse Voltage		VRRM	600	V
Maximum RMS Voltage		VRMS	420	V
Maximum DC Blocking Voltage		VDC	600	V
Maximum Average Forward Rectified Current at Tc =125°C		lf(AV)	1.0	А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load		lfsm	30	А
Max Instantaneous Forward Voltage at 1A		VF	1.68	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	Ta=25 ℃	lr	5.0	μΑ
	Ta=125℃	lr	100	
Typical Junction Capacitance at VR=4V, f=1MHz		Cj	15	pF
Maximum Reverse Recovery Time ⁽¹⁾		trr	35	nS
Typical Thermal Resistance (2)		$R_{\scriptscriptstyle{ hetaJA}}$	85	°C/W
Operating Junction Temperature Range		TJ	-55 ~ +150	°C
Storage Temperature Range		Tstg	-55 ~ + 150	${\mathbb C}$

Note: (1) Measured with IF=0.5A, IR=1A, Irr=0.25 A.

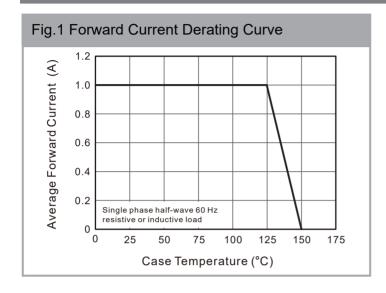
(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5cm) copper pad areas.

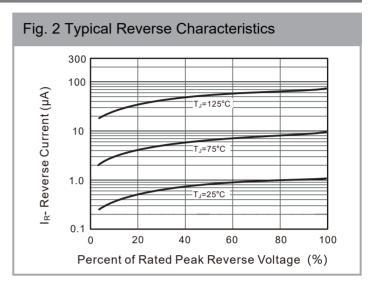


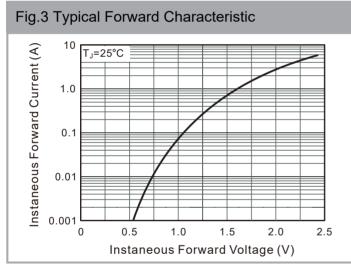
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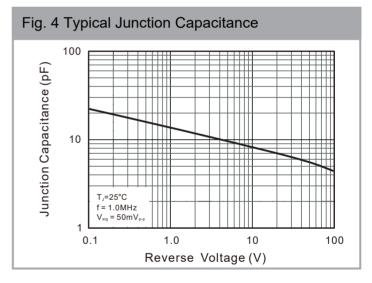
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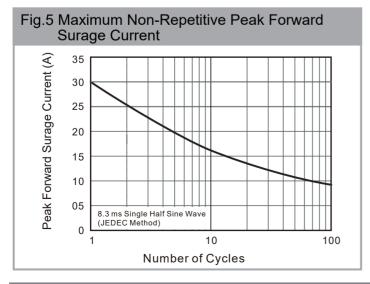
Electrical Characteristics Curves









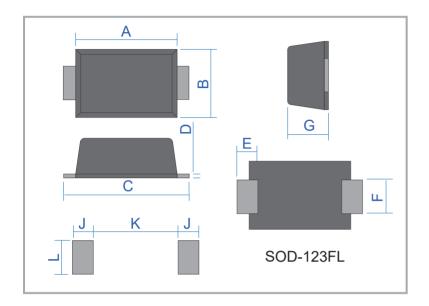




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Package Outline & Dimensions



Ref.	Millir	meters	Inches	
	Min	Max	Min	Max
Α	2.60	3.00	0.102	0.118
В	1.60	2.00	0.063	0.079
С	3.45	3.95	0.136	0.156
D	0.10	0.25	0.004	0.010
E	0.30	0.90	0.012	0.035
F	0.80	1.20	0.031	0.047
G	0.95	1.35	0.037	0.053
J	1.30		0.051	
K		1.70		0.067
L	1.30		0.051	



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