

Suface Mount General-purpose Rectifiers in SOD-123FL

Features

- Low reverse leakage
- High forward surge capability
- High reliability



■ Case: JEDEC SOD-123FL molded plastic

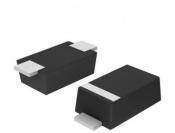
Lead free; RoHS compliant

■ Molding Compound Flammability Rating:

UL 94 V-0

■ **Terminals:** High temperature soldering guaranteed:

260 °C/10 sec. at terminals





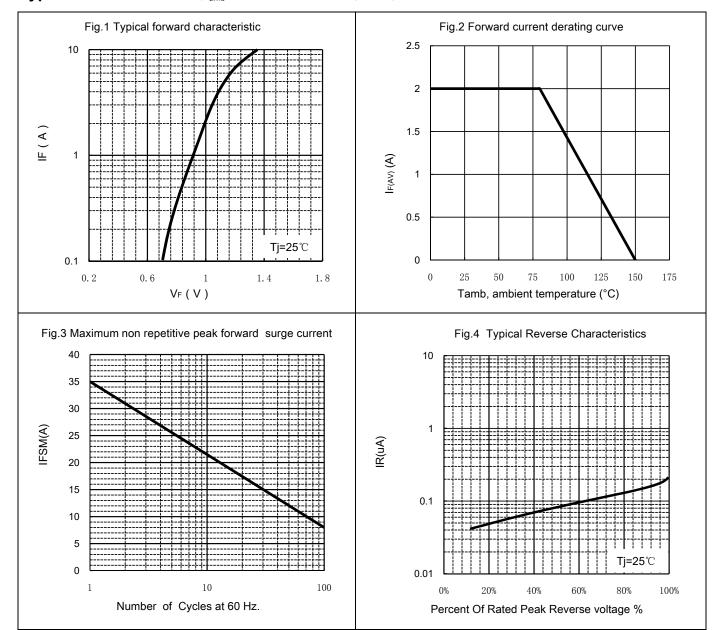
Ratings at 25 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%

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Parameter	Symbols	CS2AL	CS2BL	CS2DL	CS2GL	CS2JL	CS2KL	CS2ML	Units
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}				2.0				Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	35.0			Α				
Maximum instantaneous forward voltage @ 2.0A DC	VF				1.1				V
Maximum DC reverse current @T _J =25°C at rated DC blocking voltage @ T _J =125°C	I _R				5.0 100.0				uA
Typical junction capacitance (Note 3)	СJ				40				pF
Typical thermal resistance (Note 4)	RөJA				180				°C/W
Operating junction temperature range	TJ			-5	5 to +150)			$^{\circ}\mathbb{C}$
Storage temperature range	Тѕтс			-5	5 to +150)			$^{\circ}\!\mathbb{C}$

Notes: 1. Thermal resistance from junction to ambient, PCB mounted.

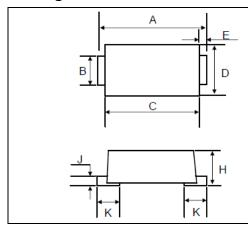


Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



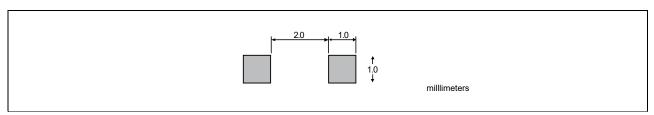


Package Dimensions



DIM	MILLIN	METERS	INCHES		
	MIN	MAX	MIN	MAX	
Α	3.5	3.9	0.138	0.159	
В	0.9	1.1	0.035	0.043	
С	2.6	3.0	0.103	0.119	
D	1.6	2.0	0.063	0.079	
E	0.45	Тур	0.018Typ		
Н	0.9	1.4	0.036	0.055	
J	0.12	0.22	0.005	0.009	
K	0.8	Гур	0.032Typ		

Pad Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CS2AL thru CS2ML	SOD-123FL	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

www.rdsemi.com 3 REV.1.0



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