Rectifier Diodes

multicomp PRO



RoHS Compliant

Features

- Ideal for Automated Placement
- · Low profile space
- · Glass Passivated Chip Junctions
- · Low reverse leakage current
- · High current capability
- · Low forward voltage drop

Mechanical Data

- · Case: JEDEC SOD-123FL Molded plastic
- · Polarity: Colour band denotes cathode
- · Mounting position: Any

Applications

· For use in SMPS, high frequency inverters, PWM and polarity protection applications

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

Characteristics	Symbol	ES1JL	Unit
	Marking	E1JL	
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Maximum RMS Voltage	VRMS	420	
Maximum DC Blocking voltage	VDC	600	
Maximum Average Forward Rectified Current @Ta=55°C	I(AV)	1	А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	İFSM	25	
Peak Forward Voltage at 1.0A DC	VF	1.7	V
Maximum DC Reverse Current @T _J =25°C	lR	5	μΑ
at Rated DC Blocking Voltage @T _J =100°C		50	
Maximum Reverse recovery time @IF=0.5A,IR=1.0A,Irr=0.25A	trr	35	nS
Typical Thermal Resistance Junction to Ambient	Rеја	150	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	

NOTE: 1. Mounted on FR-4 P.C.B. With 0.9x1.5 mm copper pad areas (≈35 µm thick)

2. The typical data above is for reference only.

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Rectifier Diodes



Rating and Characteristic Curves

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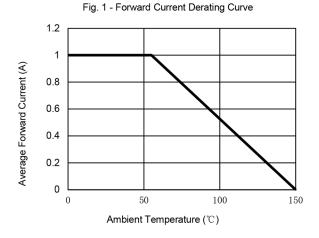


Fig. 2 - Maximum Non-Repetitive Surge Current

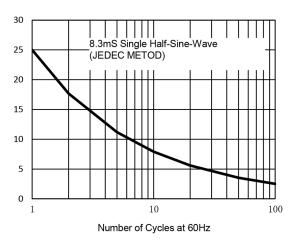


Fig. 3 - Typical Reverse Characteristics

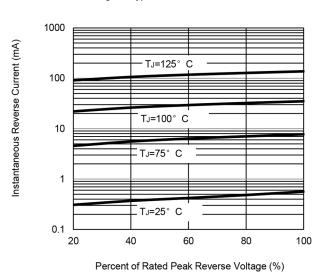
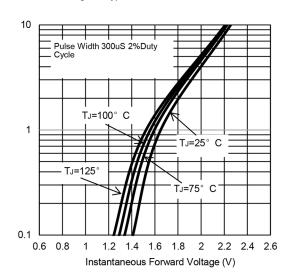


Fig. 4 - Typical Forward Characteristics



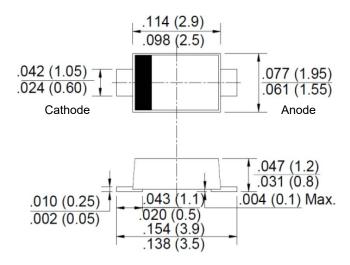
Peak Forward Surge Current (A)

nstantaneous Forward Current (A)

Rectifier Diodes



Packaging Dimensions



SOD-123FL

Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Rectifier Diode, Super Fast, 1A, 600V, 35ns, SOD-123FL	ES1JL	

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