Rectifier Diodes

multicomp PRO



RoHS Compliant

Features

- · Low cost
- Diffused junction
- · Ultra fast switching for high efficiency
- Low reverse leakage current
- · Low forward voltage drop
- · High current capability
- · The plastic material carries UL recognition 94V-0

Mechanical Data

- Case: JEDEC SOD-123FL molded plastic body over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- · Polarity: Laser band denotes cathode end

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	UF1ML	UNITS	
Maximum recurrent peak reverse voltage		Vrrm	1000		
Maximum RMS voltage		VRMS	700	V	
Maximum DC blocking voltage		VDC	1000		
Maximum Average Forward Rectified Current @T _A =55°C		I(AV)	1	A	
Peak forward surge current 8.3ms single half -s superimposed on Rated Load(JEDEC Method)	ine-wave	İFSM	25		
Peak Forward Voltage at 1.0A DC		VF	1.7	V	
Maximum DC Reverse Current at rated DC Blocking voltage	@T _J =25°C @T _J =100°C	lR	5 100	μΑ	
Maximum Reverse Recovery Time(Note 1)		Trr	75	nS	
Typical junction Capacitance (Note2)		Сл	9	рF	
Typical thermal Resistance (Note3)		Rеја	180	°C/W	
Operating junction Temperature Range		TJ	- 55 to + 125	°C	
Storage Temperature Range		Тѕтс	- 55 to + 150		

NOTE: 1. Measured with IF=0.5A, IR=1A, IRR=0.25A.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
- 3. Thermal resistance junction to ambient.

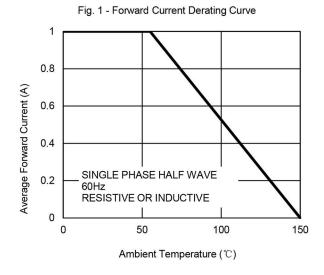
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Rating and Characteristic Curves



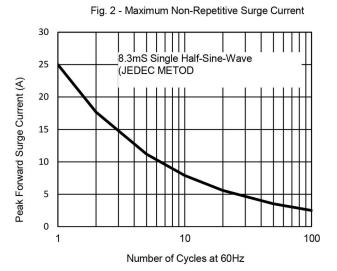


Fig. 3 - Typical Junction Capacitance

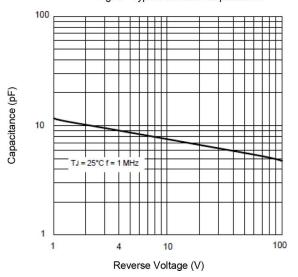
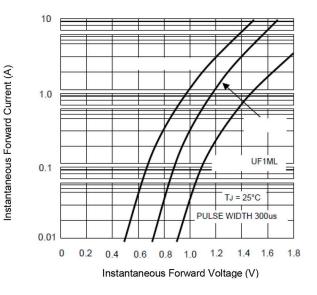


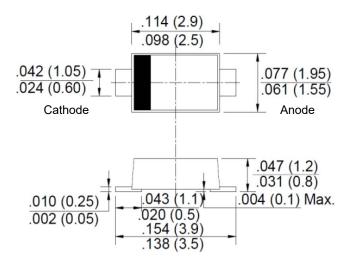
Fig. 4 - Typical Forward Characteristics



Rectifier Diodes



Packaging Dimensions



SOD-123FL

Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number
Rectifier Diode, High Efficiency, 1A, 1000V, 75ns, SOD-123FL	UF1ML

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