

A1 THRU A7

Features

- Glass passivated die construction
- High current capability
- · High surge capability
- Low profile surface mounted application in order to optimize board space

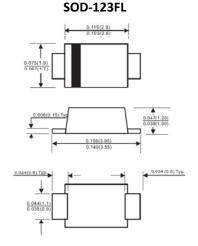
Mechanical Data

Case: SOD-123FL, molded plastic

Terminals: plated leads solderable perMIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOL	A1	A2	А3	A4	A5	A6	Α7	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current	Io	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30						А	
Forward Voltage per element @IF=1.0A	V_{FM}	1.1						V	
Peak Reverse Current	I _R	5.0 100						uA	
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	70						°C/W	
Typical junction capacitance (NOTE1)	C _J	15						pF	
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150						$^{\circ}$	

Note:

- 1. . Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 2. Mounted on FR-4 PCB copper, minimum recommended pad layout





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Characteristic Curves

FIG.1-TYPICAL FORWARD CHARACTERISTICS 50 INSTANTANEOUS FORWARD CURRENT,(A) 10 3.0 1.0 T,=25°C Pulse Width 300u 1% Duty Cycle 0.1 .01 .9 1.0 1.1 1.2 FORWARD VOLTAGE,(V)

FIG.3 - TYPICAL REVERSE CHARACTERISTICS 100 10 REVERSE LEAKAGE CURRENT, (µA) 1.0 .1 .01 100 PERCENTAGE RATED PEAK REVERSE VOLTAGE

