

### FM4001FL thru FM4007FL

# SURFACE MOUNT GENERAL PURPOSE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

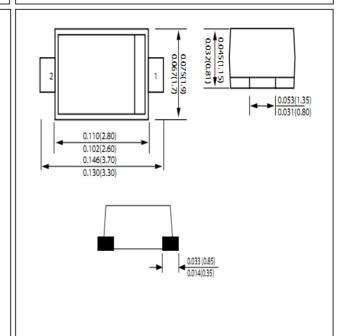
#### **FEATURES**

- Plastic passivated Junction
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

#### **MECHANICAL DATA**

• Case : Molded plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces, 0.064 grams



SOD-123FL

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%

CHARACTERISTICS	SYMBOL	FM4001FL	FM4002FL	FM4003FL	FM4004FL	FM4005FL	FM4006FL	FM4007FL	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	٧
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 @TL =100°C	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	<b>I</b> FSM	20							А
Maximum forward Voltage at 1.0A DC	VF	1.1						V	
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ =125°C	lR	10 100							uA
Typical Junction Capacitance (Note1)	Сл	30						pF	
Typical Thermal Resistance (Note 2)	Røjl	100						°C/W	
Maximum Reverse Recovery Time (Note 3)	TRR	2.0						us	
Operating Temperature Range	TJ	-55 to +150						°C	
Storage Temperature Range	Тѕтс	-55 to +150						°C	

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- 2. Thermal Resistance Junction to Lead.
- 3. Measured with :IF=0.5A, IR=1.0A, IRR=0.25A

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