

## **FS11PL THRU FS17PL**

### SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

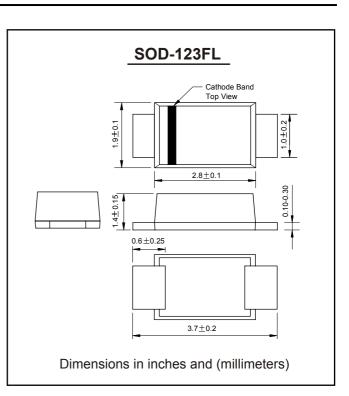
#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications •
- Fast switching for high efficiency
- Low reverse leakageBuilt-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

#### **MECHANICAL DATA**

- Case: SOD-123FL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.017 grams





#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

Characteristic		SYMBOLS	FS11PL	FS12PL	FS13PL	FS14PL	FS15PL	FS16PL	FS17PL	UNITS
		Marking code	F1	F2	F3	F4	F5	F6	F7	
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 at	$T_{tp}=65 ^{\circ}C$ $T_{A}=45 ^{\circ}C$ $T_{J}=45 ^{\circ}C$	l(av)	1.4 0.5 1.0						А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)			30.0						А	
Maximum instantaneous forward voltage at	0.7A 1.0A	Vf	1.15 1.30						V	
Maximum DC reverse currentTa=25°Cat rated DC blocking voltageTa=55°C		lR	5.0 50.0					μA		
Maximum reverse recovery time (NOTE 1)		trr		150	)		250	50	0	ns
Typical junction capacitance (NOTE 2)		Сл	9						pF	
Typical thermal resistance (NOTE 3)		Reja	50.0						°C/W	
Operating junction and storage temperature range		Тյ,Тsтg	-55 to +150						°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 3.0x3.0mm copper pad areas



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### **RATINGS AND CHARACTERISTIC CURVES**

