

FS11FL THRU FS17FL

SURFACE MOUNT FAST RECOVERY RECTIFIER

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

FEATURES

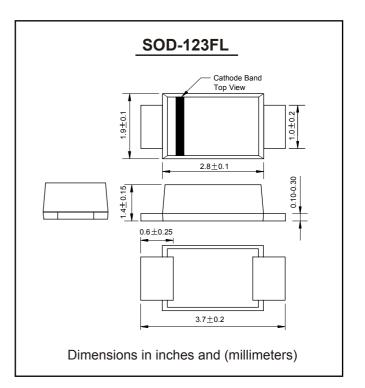
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Fast switching for high efficiency
- Low reverse leakageBuilt-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering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



• 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	FS11FL	FS12FL	FS13FL	FS14FL	FS15FL	FS16FL	FS17FL	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	$T_{tp}=65$ °C $T_A=45$ °C $T_J=45$ °C	l(AV)	1.4 0.5 1.0						Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on	<u> </u>			IFSM 30.0						
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at	0.7A 1.0A	VF	1.15 1.30					V		
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=55°C		lR	5.0 50.0					μA		
Maximum reverse recovery time (NOTE 1)		trr		150)		250	500)	ns
Typical junction capacitance (NOTE 2)		Сл	9							pF
Typical thermal resistance (NOTE 3)		Rθja	50.0							°C/W
Operating junction and storage temperature range		ТЈ,Тѕтс	-55 to +150							°C

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

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

