

1.0Amp Surface Mount Schottky Barrier Rectifiers

SS12FL~SS120FL

Features

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

Mechanical Data

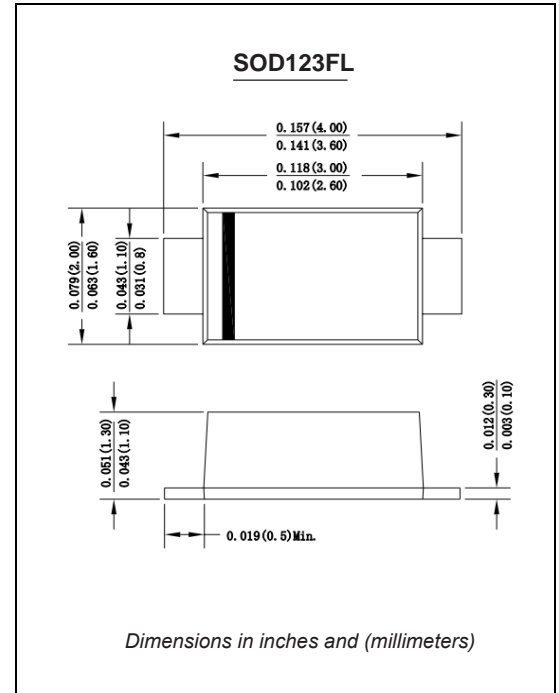
Case: JEDEC SOD123FL molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight : 0.0007 ounce, 0.02 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%.

	SYMBOLS	SS12FL	SS14FL	SS16FL	SS18FL	SS110FL	SS115FL	SS120FL	UNITS
	Mark Code	SS12	SS14	SS16	SS18	SS110	SS115	SS120	
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	56	70	105	150	VOLTS
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	150	200	VOLTS
Maximum average forward rectified current at $T_L=110^\circ\text{C}$	$I_{(AV)}$	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	V_F	0.55	0.70	0.85	0.95				Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5					0.1		mA
		20.0		10.0		2.0			
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$	88.0							C/W
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							°C

Note: 1.P.C.B. mounted with 5.0x5.0mm copper pad areas

Ratings And Characteristic Curves

SS12FL THRU SS120FL

