

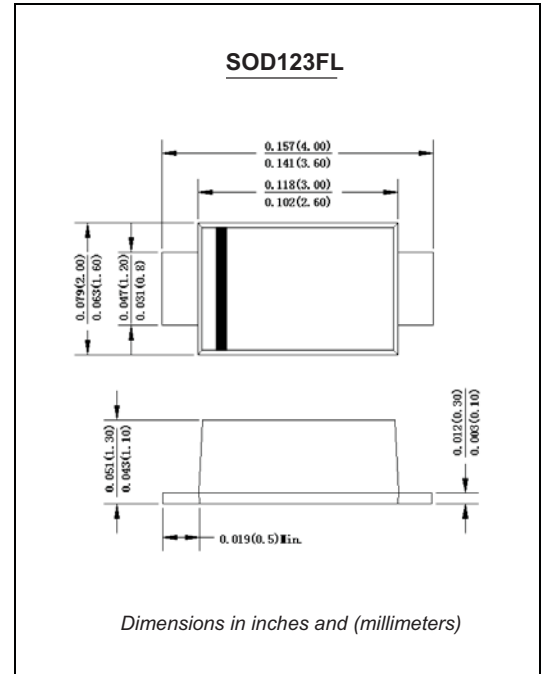
1.0Amp Surface Mount Schottky Barrier Rectifiers SS12~SS120

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	SS12	SS14	SS16	SS18	SS110	SS115	SS120	UNITS	
	Mark Code	K12	K14	K16	K18	K110	K115	K120		
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 $T_L=110^\circ C$	$I_{(AV)}$	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		2.0		mA
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

SS12 THRU SS120

FIG. 1- FORWARD CURRENT DERATING CURVE

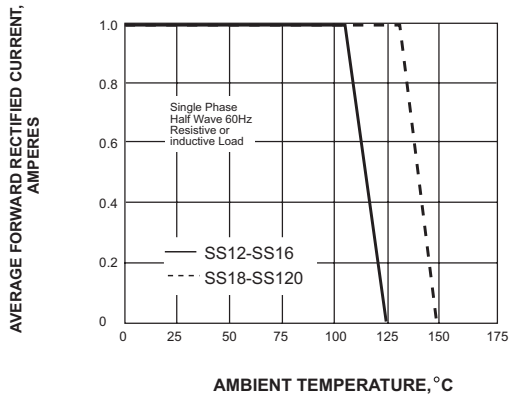


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

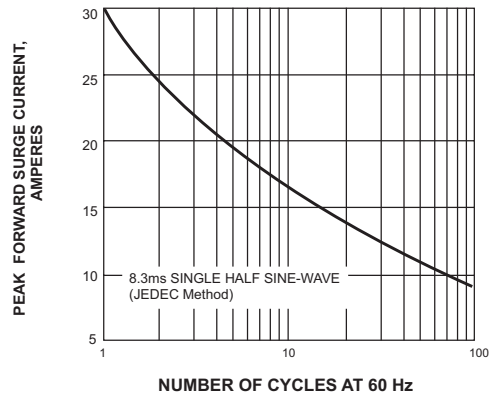


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

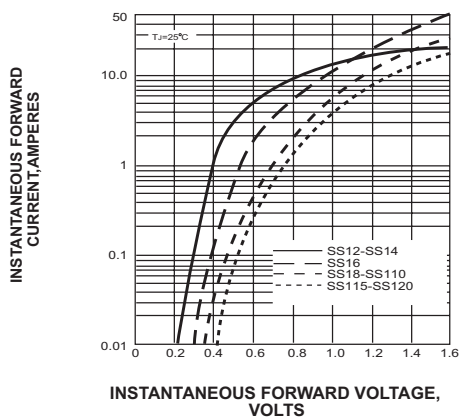


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

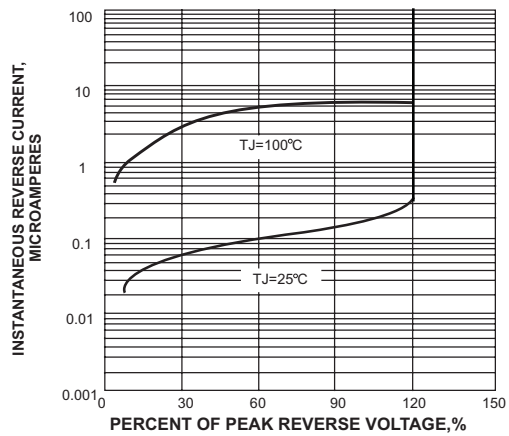


FIG. 5-TYPICAL TRANSIENT THERMAL IMPEDANCE

