

SK32FL(SS32)~SK320FL(SS320)

3.0Amp Surface Mount Schottky Barrier Rectifiers

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

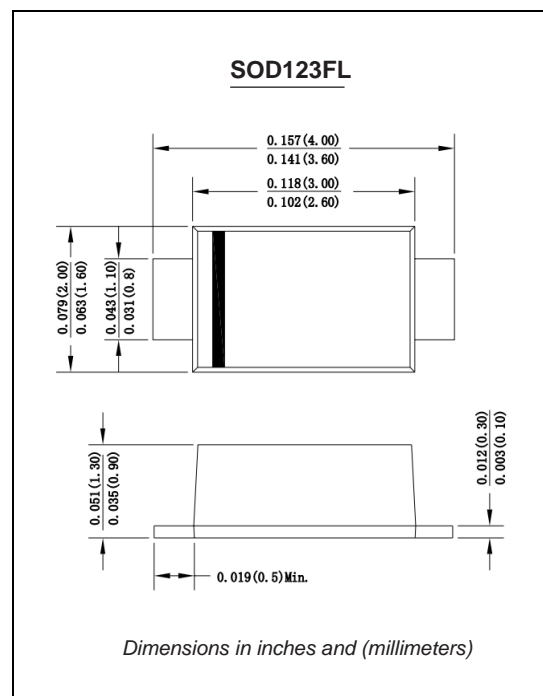
Case: JEDEC SOD123FL molded plastic body

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	SK32FL	SK34FL	SK36FL	SK38FL	SK310FL	SK315FL	SK320FL	UNITS
	Mark Code	K32	K34	K36	K38	K310	K315	K320	
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 _A =75°C	I <sub(av)< sub=""></sub(av)<>	3.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60.0							Amps
Maximum instantaneous forward voltage at 3.0A	V _F	0.55	0.70	0.85	0.95				Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5					0.2		mA
		20.0		10.0		2.0			
Typical thermal resistance (NOTE 1)	R _{θJA}	75.0							C/W
Operating junction temperature range	T _J , T _{STG}	-55 to +125			-55 to +150				°C
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

SK32FL(SS32) THRU SK320FL(SS320)

FIG. 1- FORWARD CURRENT DERATING CURVE

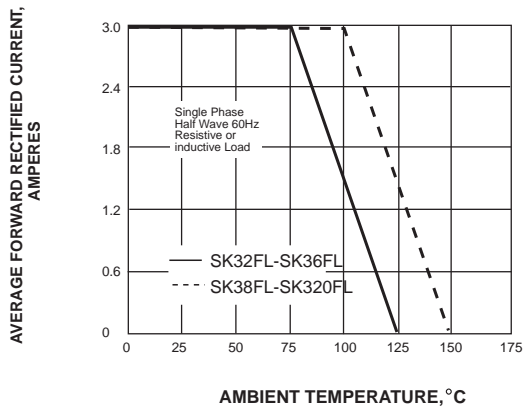


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

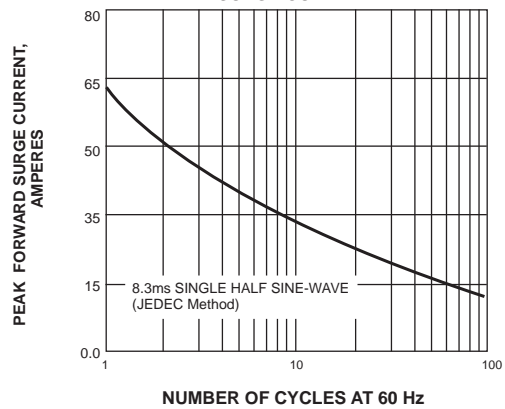


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

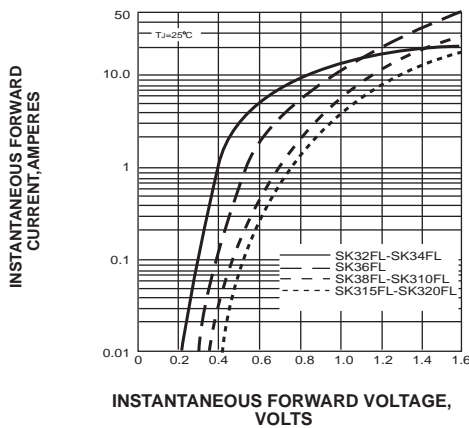


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

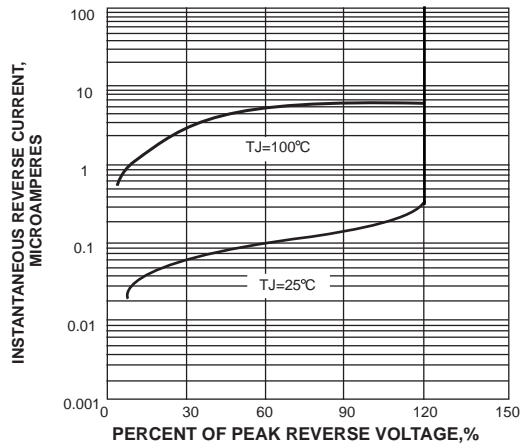


FIG. 5-TYPICAL TRANSIENT THERMAL IMPEDANCE

