



YENYO

SS22FL THRU SS2DFL

Surface Mount Schottky Barrier Rectifier

Features

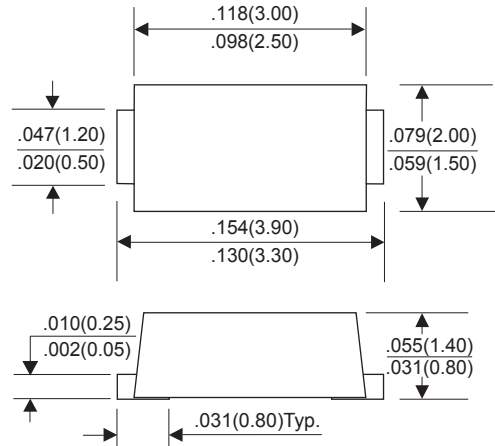
- * Low profile package
- * Ideal for automated placement
- * Guardring for overvoltage protection
- * Low power losses, high efficiency
- * Low forward voltage drop
- * High surge current capability

Mechanical Data

- * Case: Molded plastic SOD-123FL
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solderable per MIL-STD-750 method 2026
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

**Voltage Range 20 to 200V
Current 2.0 Ampere**

SOD-123FL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	SS22FL	SS24FL	SS26FL	SS2BFL	SS2CFL	SS2DFL	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0						A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50						A
Maximum Instantaneous Forward Voltage @ $I_F=2.0A$	V_F	0.50		0.70	0.85		0.95	V
Maximum DC Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=100^\circ C$	I_R	0.4 10						mA
Typical Thermal Resistance To Ambient	$R_{\theta JA}$	80						$^\circ C/W$
Typical Thermal Resistance To Lead	$R_{\theta JL}$	25						$^\circ C/W$
Operating Junction Temperature Range	T_J	-55 to +125		-55 to +150				$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150						$^\circ C$

RATINGS AND CHARACTERISTIC CURVES SS22FL THRU SS2DFL

FIG.1 - FORWARD CURRENT DERATING CURVE

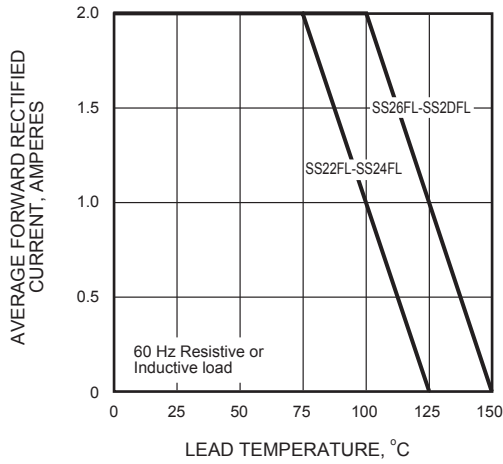


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

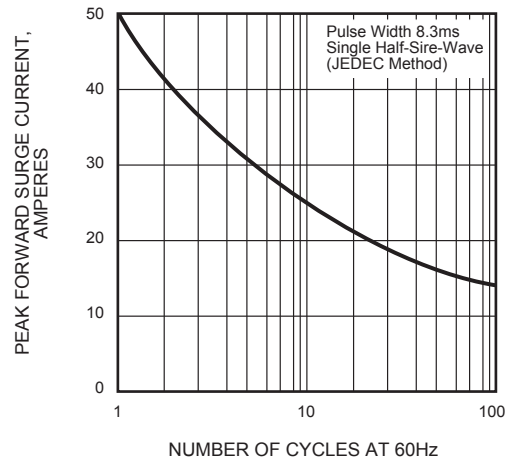


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

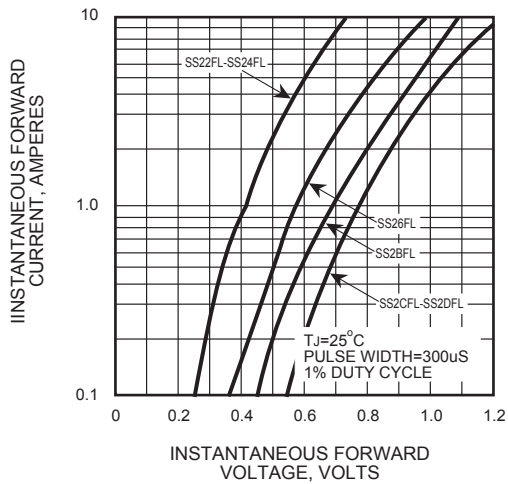


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

