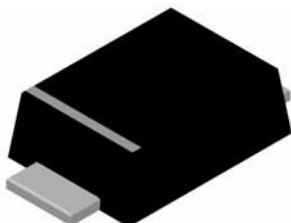



**SOD-123FL**

**Features**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:  
250°C/10 seconds, 0.375(9.5mm) lead length,  
5 lbs. (2.3kg) tension

**Mechanical Data**

- SOD 123FL small outline plastic package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

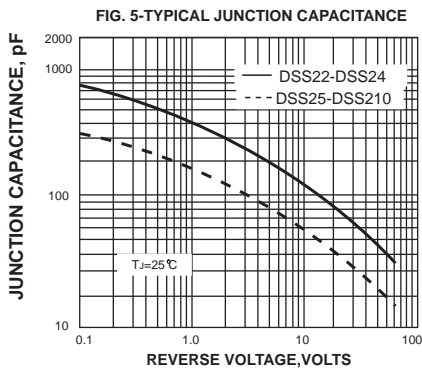
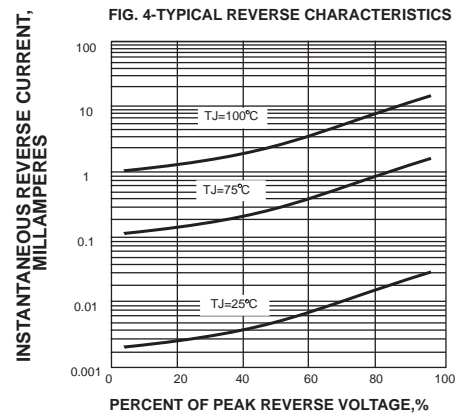
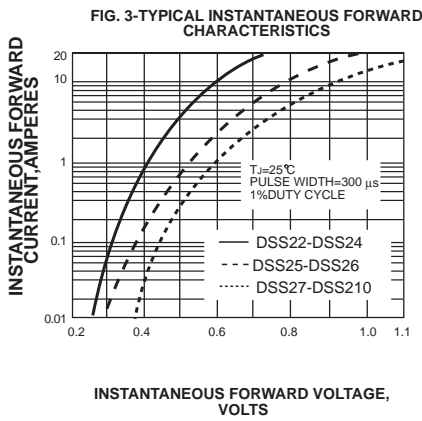
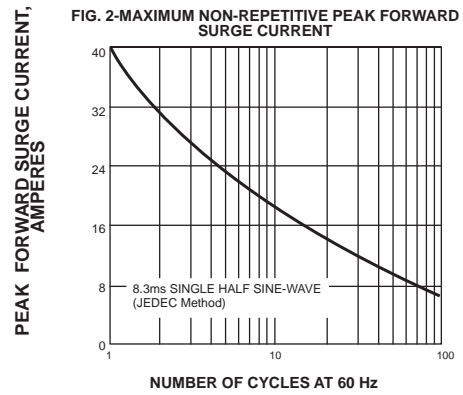
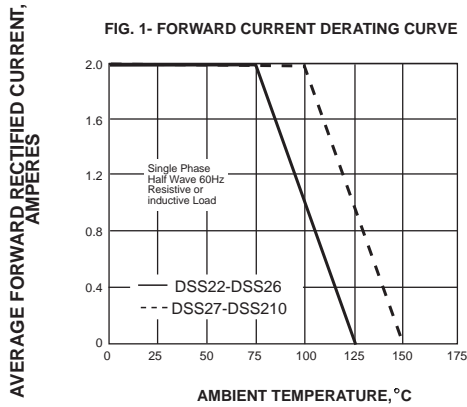
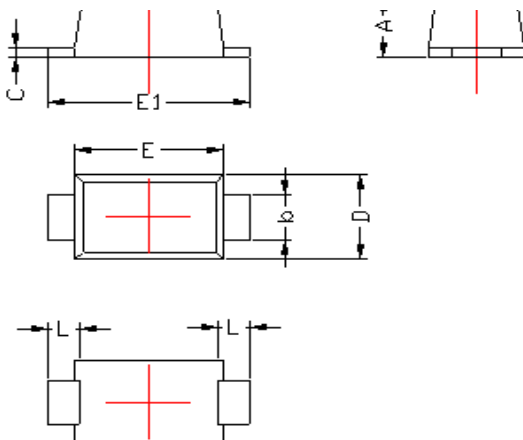
**Maximum Ratings & Thermal Characteristics**

(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	DSS22	DSS23	DSS24	DSS25	DSS26	DSS27	DSS28	DSS29	DSS210	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current	I <sub>(AV)</sub>	2.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	40.0									Amps
Maximum instantaneous forward voltage at 2.0A	V <sub>F</sub>	0.55			0.70			0.85			Volts
Maximum DC reverse current T <sub>A</sub> =25°C at rated DC blocking voltage T <sub>A</sub> =100°C	I <sub>R</sub>	0.5						5.0			mA
		10.0									
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	220			80						pF
Operating junction temperature range	T <sub>J</sub>	-65 to +125					-65 to +150				°C
Storage temperature range	T <sub>STG</sub>	-65 to +150									°C

**Note:**1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.


**SOD-123FL PACKAGE OUTLINE** Plastic surface mounted package


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.20	1.40
b	0.80	1.10
C	0.15	0.25
D	1.75	1.95
E	2.70	2.90
E1	3.50	3.90
L	0.35	0.85