

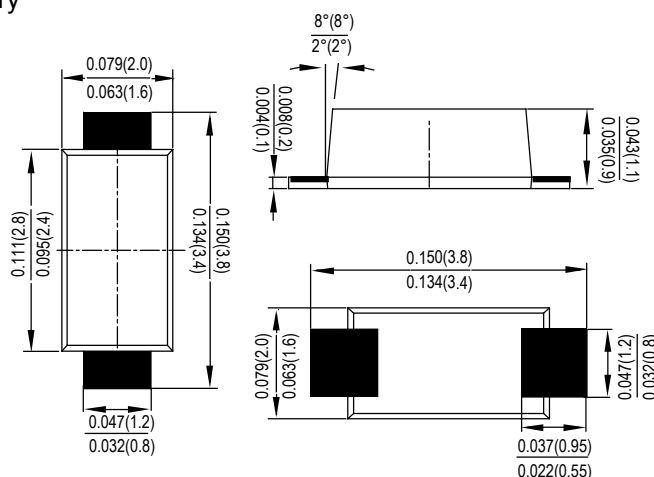
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High temperature soldering guaranteed:
260 °C / 10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

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%.

TYPE NUMBER	SYMBOL	D14L	D16L	D18L	D110L	D115L	D120L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	40	60	80	100	150	200	V
	V _{RWM}							
	V _{DC}							
RMS Reverse Voltage	V _{RMS}	28	42	56	70	105	140	V
Average Rectified Output Current @T _A =90 °C	I _O	1.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	30						A
Forward Voltage per element @I _F =1.0A	V _{FM}	0.43	0.5	0.6	0.8			V
Peak Reverse Current @T _A =25 °C At Rated DC Blocking Voltage @T _A =100 °C	I _R	0.1		0.05			5	mA
		10						
Typical junction capacitance (NOTE 1)	C _J	110		80				pF
Operating junction temperature range	T _J	-55to+150						°C
Operating and Storage Temperature Range	T _{STG}	-55to+150						°C

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

FIG. 1- FORWARD CURRENT DERATING CURVE

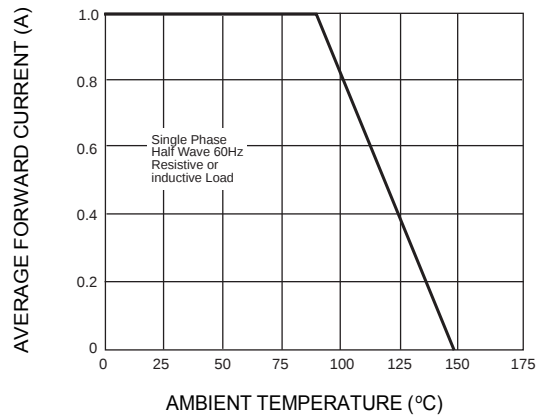


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

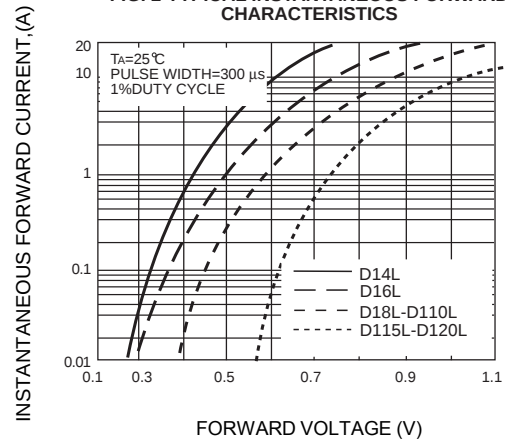


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

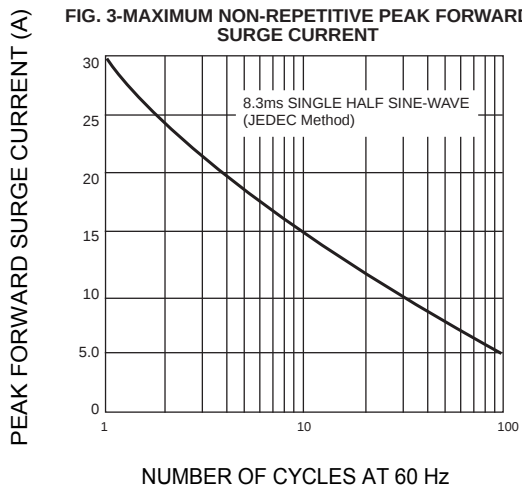


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

