

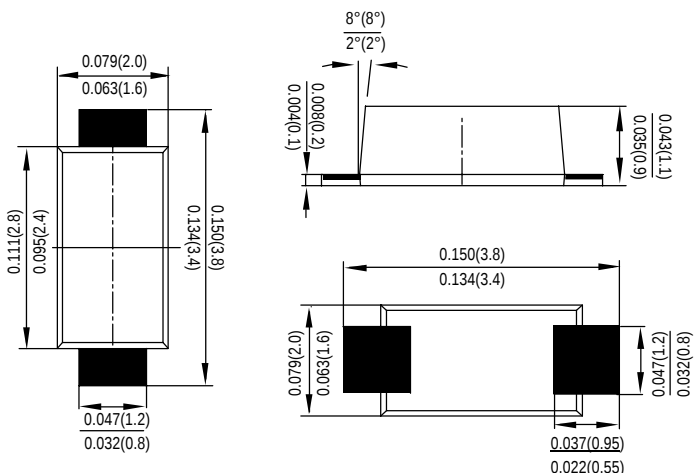
Features

- 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



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	SS32 FL K32	SS33 FL K33	SS34 FL K34	SS35 FL K35	SS36 FL K36	SS38 FL K38	SS39 FL K39	SS310 FL K310	SS315 FL K315	SS320 FL K320	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	150	200	V
Working Peak Reverse Voltage	V _{RWM}											
DC Blocking Voltage	V _{DC}											
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	56	63	70	105	140	V
Average Rectified Output Current @T _A =90°C	I _O	3.0										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80										A
Forward Voltage per element @IF=3.0A	V _{FM}	0.55		0.7		0.85		0.90		0.92		V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =100 °C	I _R	0.1				0.05				uA		
		10				5						
Operating junction temperature range	T _J	-55to+150										°C/W
Operating and Storage Temperature Range	T _{STG}	-55to+150										°C

FIG. 1- FORWARD CURRENT DERATING CURVE

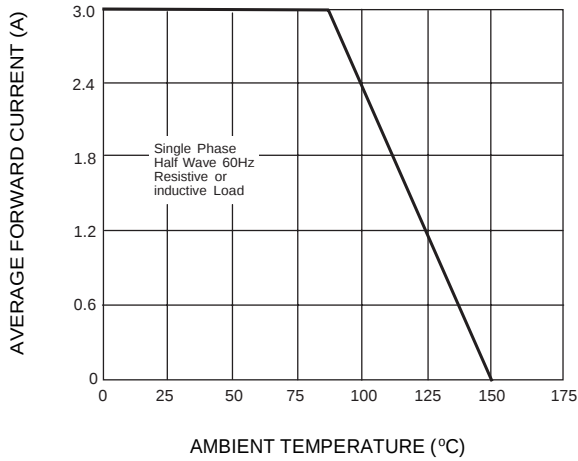


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

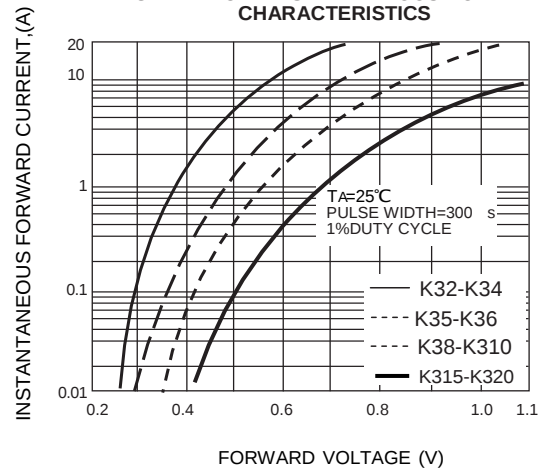


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

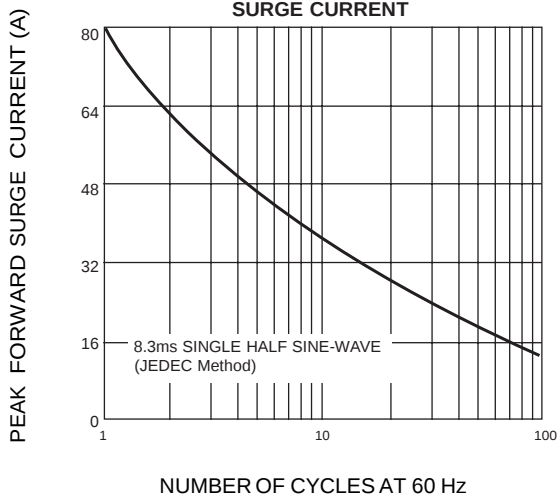


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

