

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

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	DSK24L	DSK26L	DSK28L	DSK210L	DSK215L	DSK220L	UNITS
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 _L =90°C	I _{F(AV)}	2.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	50						A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	10.375						A ² s
Forward Voltage per element @IF=2.0A	V _{FM}	0.45	0.5	0.75		0.85		V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =100°C	I _R	0.3		0.1				mA
		10		5				
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

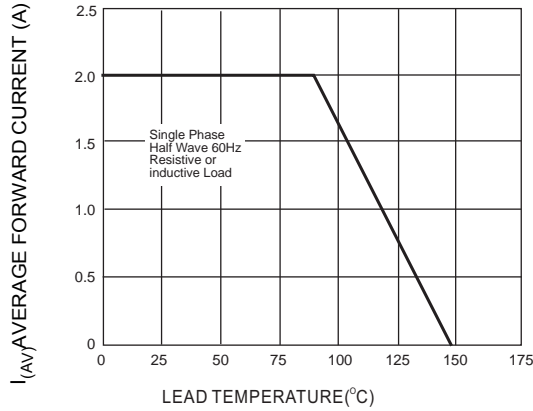


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

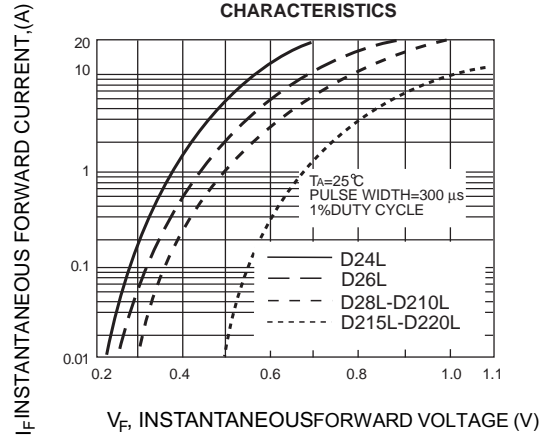


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

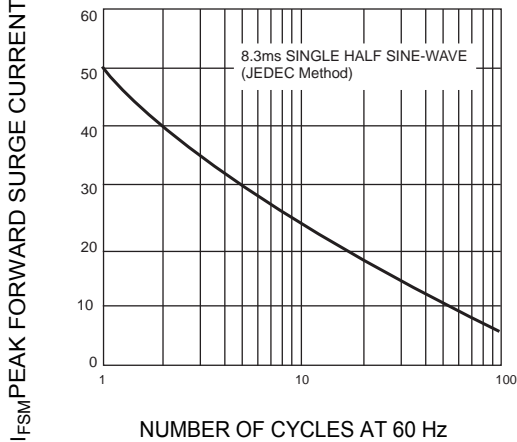


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

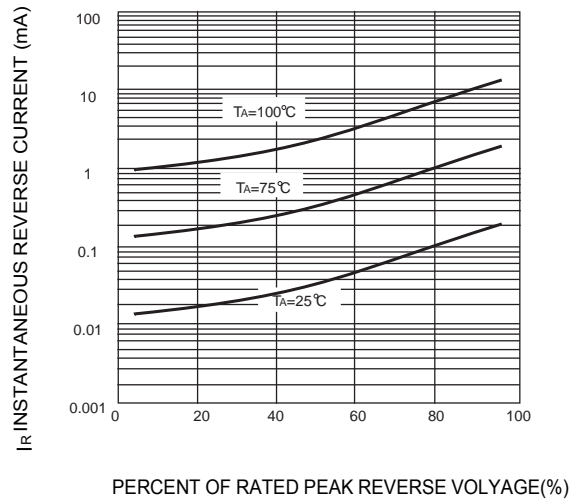
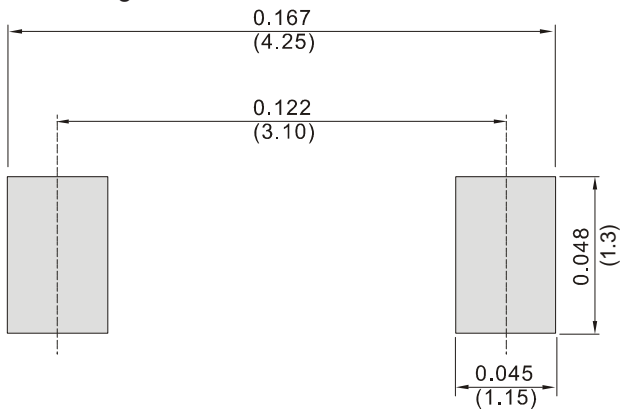
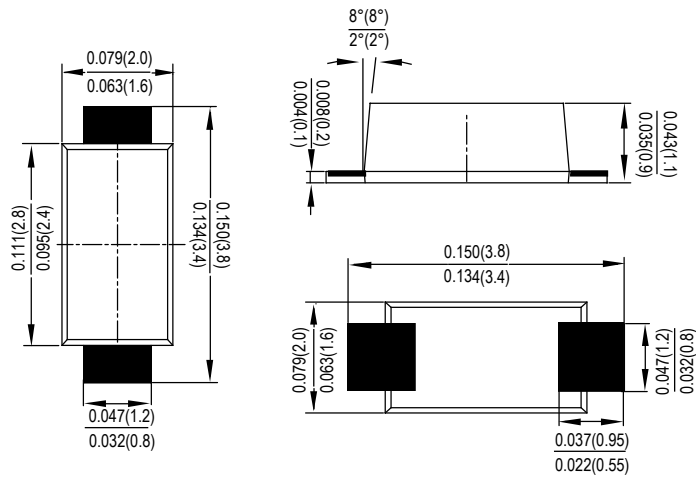


Fig.5 TYPICAL CAPACITANCE



SOD-123FL



Dimensions in inches and (millimeters)