Leiditech

DSK24L THRU DSK220L

2.0AMP SURFACE MOUNT LOW VF SCHOTTK RECTIFIER

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℃/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℃ 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} V_{RWM} V_{DC}	40	60	80	100	150	200	V
RMS Reverse Voltage	V_{RMS}	28	42	56	70	105	140	V
Average Rectified Output Current @T_L =90℃	$I_{F(AV)}$	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^2t Rating for Fusing (t < 8.3ms)	I^2t	10.375						A^2S
Forward Voltage per element @IF=2.0A	V_{FM}	0.45	0.5	0.75		0.85		V
Peak Reverse Current @T_A =25℃ At Rated DC Blocking Voltage @T_A =100℃	I_R	0.3 10		0.1 5				mA
Typical junction capacitance (NOTE 1)	C_J	110		80				pF
Operating junction temperature range	T_J	-55to+150						℃
Operating and Storage Temperature Range	T_{STG}	-55to+150						℃

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

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FIG. 1- FORWARD CURRENT DERATING CURVE

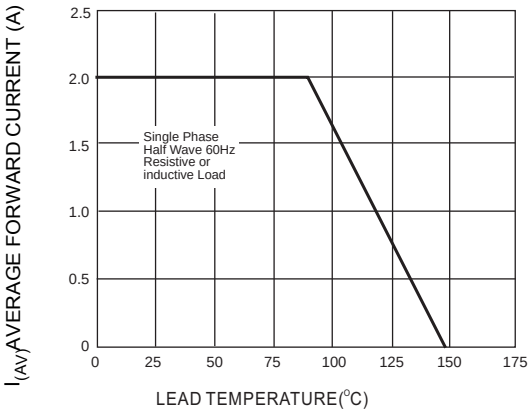


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

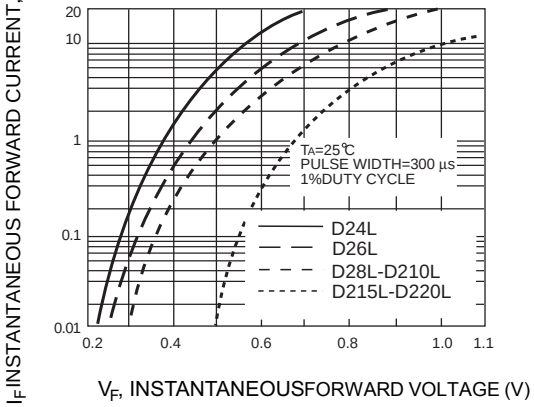


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

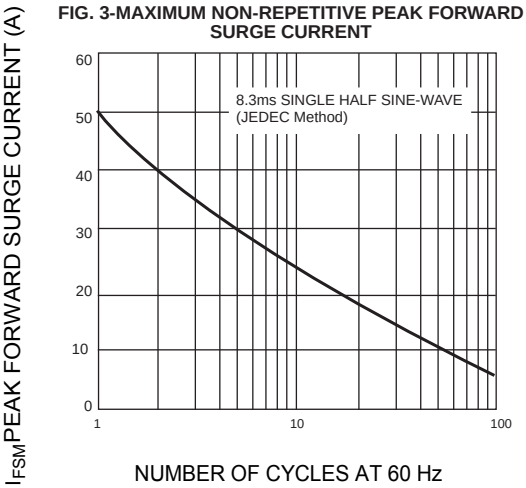


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

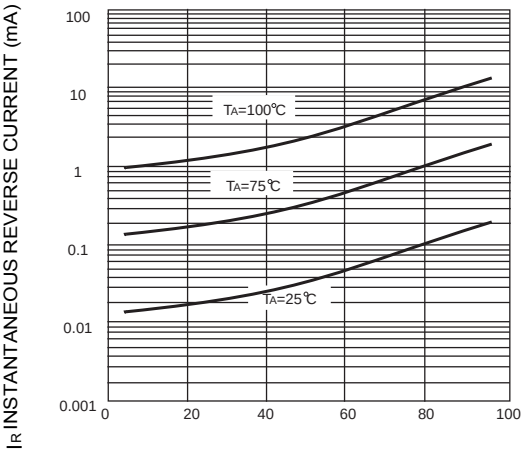
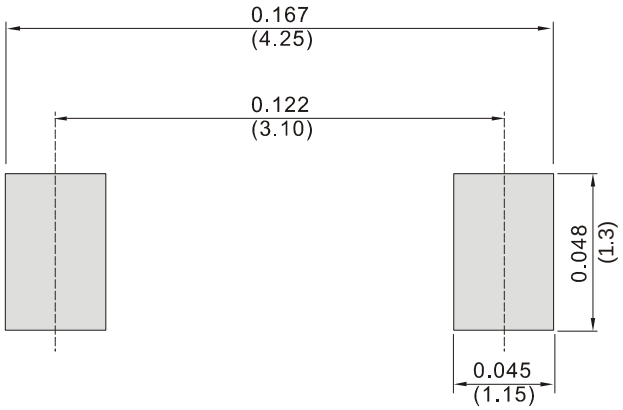
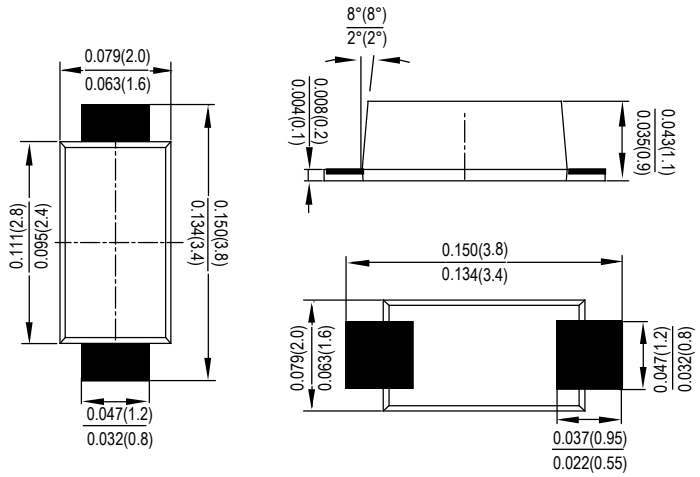


Fig.5 TYPICAL CAPACITANCE



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SOD-123FL



Dimensions in inches and (millimeters)

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