MSKSEMI















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Broduct data sheet





SOD-123FL

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		P/N	DS32W -MS	DS33W -MS	DS34W -MS	DS35W -MS	DS36W -MS	DS38W -MS	DS39W -MS	DS310W -MS	
TYPE NUMBER		MARK	K32	K33	K34	K35	K36	K38	K39	K310	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current											
At TL=100°C		l(AV)	3.0						Α		
Peak Forward Surge Current, 8.3 ms single half sine-wave		FSM									
superimposed on rated load (JEDEC method)		IFSW	80							Α	
Maximum Instantaneous Forward Voltage at 3.0A		VF	0.55 0.70 0.85				V				
Maximum DC Reverse Current	Ta=25°C	I_	0.1 0.02			mA					
at Rated DC Blocking Voltage	Ta=100°C	IR	lr 5 2			mA					
Operating Temperature Range T _J		Тл	-65 —+150						°C		
Storage Temperature Range Tsrg		Тѕтс	-65 — +150							°C	

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (K32 THRU K310)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

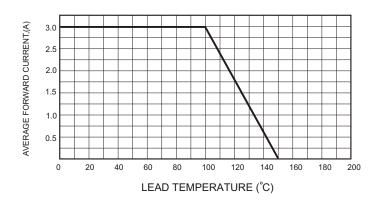
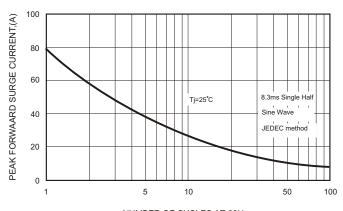


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

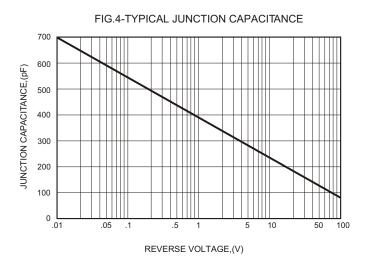


FIG.2-TYPICAL FORWARD

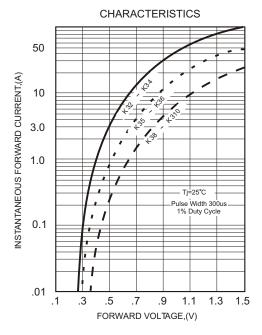
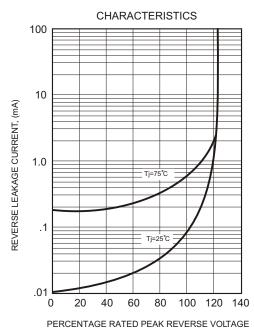
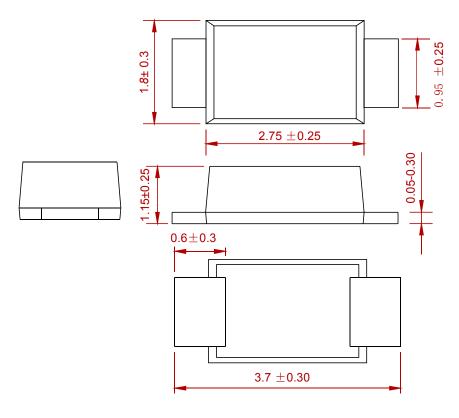


FIG.5 - TYPICAL REVERSE

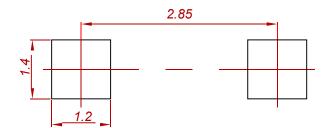


PACKAGE MECHANICAL DATA



Dimensions in millimeters

Suggested Pad Layout



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
DS32W-MS THRU DS310W-MS	SOD-123FL	3000



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