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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	DS22W -MS	DS23W -MS	DS24W -MS	DS25W -MS	DS26W -MS	DS28W -MS	DS29W -MS	DS210W -MS	
	MARK	K22	K23	K24	K25	K26	K28	K29	K210	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	l(AV)	I(AV)								
See Fig. 1		2.0					Α			
Peak Forward Surge Current, 8.3 ms single half sine-w	ave I <sub>FSM</sub>									
superimposed on rated load (JEDEC method)	IFSM	40					Α			
Maximum Instantaneous Forward Voltage at 2.0A	VF		0.55		0.	70		0.85		V
Maximum DC Reverse Current Ta=25°C		0.1 0.02			mA					
at Rated DC Blocking Voltage Ta=100°C	lR	5				2		mA		
Typical Junction Capacitance (Note1)	Cı	170			pF					
Operating Temperature Range T <sub>J</sub>	TJ	-65 —+150				°C				
Storage Temperature Range T <sub>STG</sub>	Тѕтс	-65—+150			·	°C				

#### NOTES:

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



#### RATING AND CHARACTERISTIC CURVES (K22 THRU K210)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

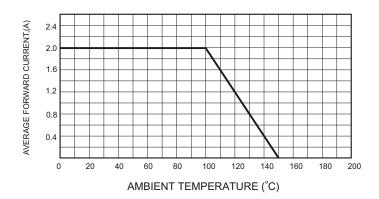


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

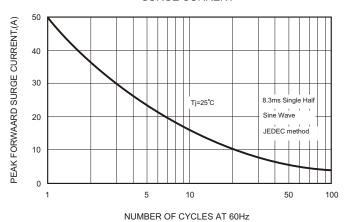


FIG.4-TYPICAL JUNCTION CAPACITANCE

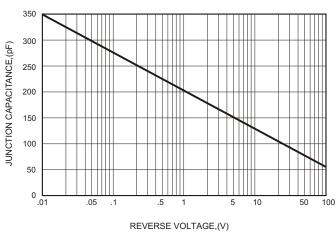


FIG.2-TYPICAL FORWARD

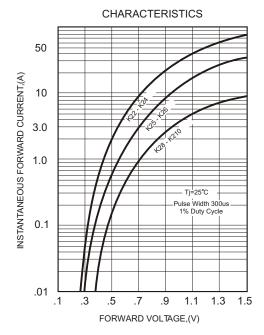
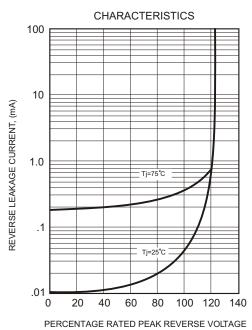
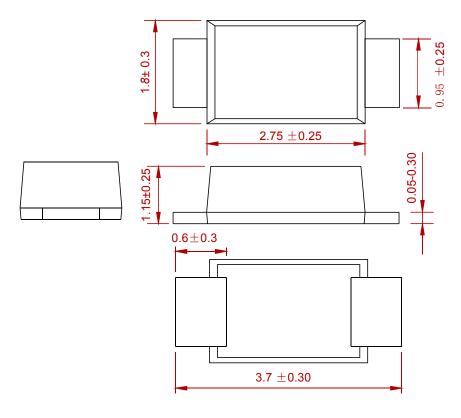


FIG.5 - TYPICAL REVERSE

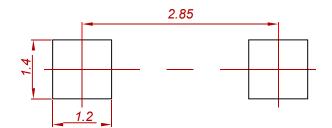


#### **PACKAGE MECHANICAL DATA**



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				
DS22W-MS THRU DS210W-MS	SOD-123FL	3000				



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