

Features

Average Forward Current: I_{F(AV)} =1A

Polarity: Color band denotes cathode



SOD-123FL



Package Marking and Ordering Information

Product ID	Pack Markin		Qty(PCS)
ES1A-ES1J	SOD-123FL	E1x	3000

x: From A-J

Maxmim Ratings (Ta=25 unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Tpye Number		ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	Units
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Curren	t			•					
at Ta=25°C		1.0						Α	
Peak Forward Surge Current, 8.3 ms single h	nalf sine-wave								
superimposed on rated load (JEDEC method) Maximum Instantaneous Forward Voltage at 1.0A		30							Α
		0.95 1.25				1.7	V		
Maximum DC Reverse Current	Ta=25°C	5.0						μА	
at Rated DC Blocking Voltage Ta=100°C			500						
Maximum Reverse Recovery Time (Note 1) Typical Junction Capacitance (Note 2)		35							nS
		15							pF
Typical Thermal Resistance R JA (Note 3)			80						°C/W
Operating and Storage Temperature Range Тл, Тsтс			-65 — +150						°C

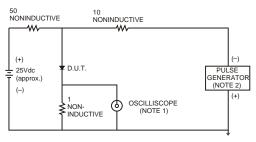
NOTES

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal Resistance from Junction to Ambient.



Typical Characteristics

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERYTIME CHARACTERISTIC



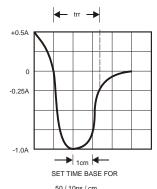


FIG.2-TYPICAL FORWARD CURRENT **DERATING CURVE**

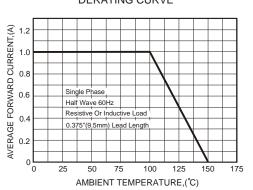
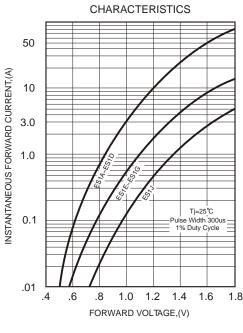


FIG.3-TYPICAL FORWARD



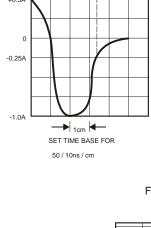


FIG.4-TYPICAL REVERSE

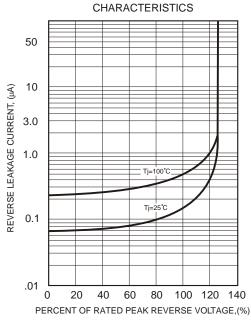


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

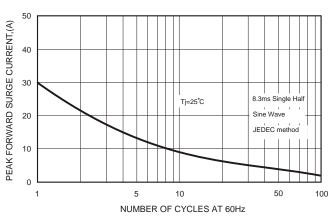
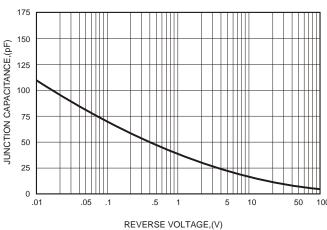
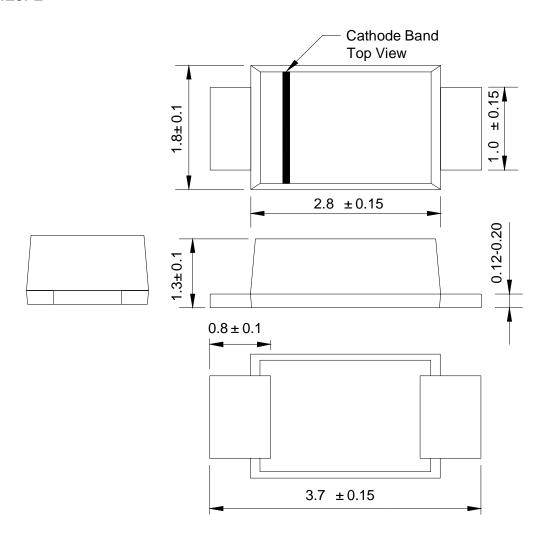


FIG.6-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions SOD-123FL





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