

Features

- Average Forward Current:I_{F(AV)}=1A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
S1A-S1M	SOD-123FL	S1x	3000			



SOD-123FL

x: From A-M

Maxmim Ratings (Ta=25°C unless otherwise noted)

	Symbol	Unit	Test Conditions	S1							
Item				Α	В	D	G	J	K	M	
Repetitive Peak Reverse Voltage	V_{RRM}	٧		50	100	200	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	V		35	70	140	280	420	560	700	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave , Resistance load , T L =100 °C	1.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave , 1 cycle , Ta=25 ℃	30							
Operation Junction and Storage Temperature Range	T _J ,T _{STG}	${\mathbb C}$		-55 ~ +150							

Electrcal Charcteristics (Ta=25°C unless otherwise specified)

						S1						
Item	Symbol	I Unit Test Condition		Α	В	D	G	J	K	M		
Peak Forward Voltage	V_{F}	٧	I _F =2.0A			1.1						
Peak Reverse Current	I _{RRM1}	μΑ	V _{RM} =V _{RRM}	T _a =25℃				5.0				
	I _{RRM2}			T _a =125℃				50				
Thermal	$R_{\theta J\text{-A}}$	°C/ W	Between juncti	on and ambient	80							
Resistance(Typical)	$R_{ heta_{J-L}}$	C/ VV	Between juncti	on and terminal				16				

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



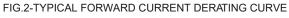
Typical Characteristics

FIG.3 - TYPICAL REVERSE
CHARACTERISTICS

100

Tj=100°C

Tj=25°C



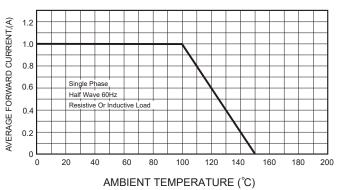


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

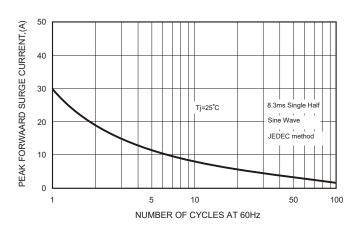
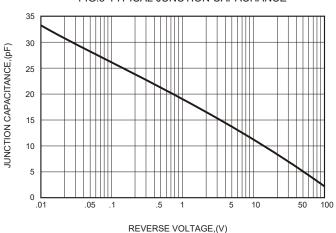


FIG.5-TYPICAL JUNCTION CAPACITANCE



40

60

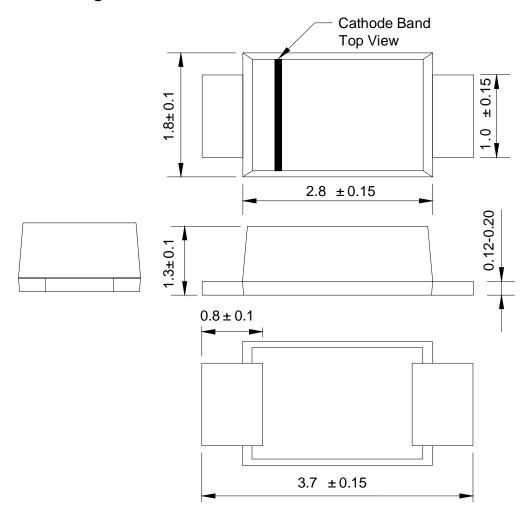
80

PERCENTAGE RATED PEAK REVERSE VOLTAGE

100 120

.01 L 0

SOD-123FL Package Outline Dimensions





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