

FEATURES

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

+

SOD-123F





Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
S1A-S1M	SOD-123F	S1 *	3000			

★:From A-M

MAXIMUM RATINGS (Ta=25 unless otherwise noted)

	Symbol	Unit	Test Conditions	S1							
Item				Α	В	D	G	J	K	М	
Repetitive Peak Reverse Voltage	V_{RRM}	V		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 ℃	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}	$^{\circ}$		-55 ~ +150							

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

						S1						
Item	Symbol	Symbol Unit		Test Condition		В	D	G	J	K	M	
Peak Forward Voltage	V_{F}	V	I _F =2.0A			1.1						
Peak Reverse Current	I _{RRM1}		V _{RM} =V _{RRM}	T _a =25℃				5.0				
	I _{RRM2}	μA		T _a =125℃				50				
Thermal	$R_{\theta J-A}$	°C/W	Between juncti	on and ambient	80							
Resistance(Typical)	$R_{ heta_{J-L}}$	C 7 VV	Between junction and terminal					16				

Notes:

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

Typical Characteristics

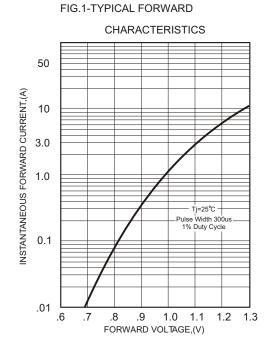


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

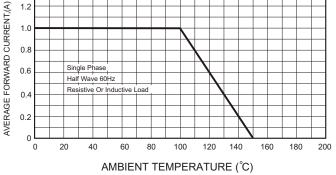


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

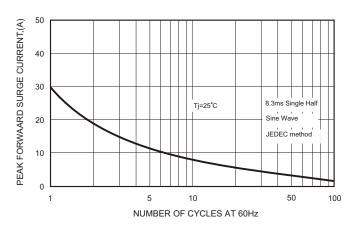


FIG.3 - TYPICAL REVERSE

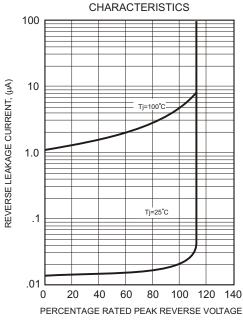
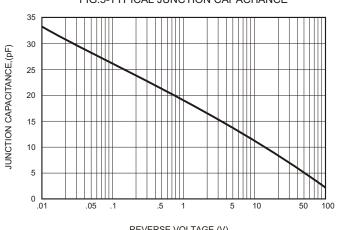
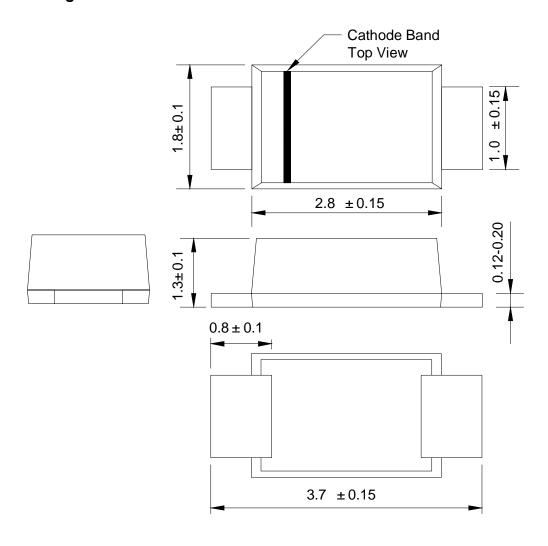


FIG.5-TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE,(V)

SOD-123F Package Outline Dimensions





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