

Features

- I_O 1A
- V_{RRM} 150V-200V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier



SOD-123FL

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	DSS115	DSS120
Repetitive Peak Reverse Voltage	V_{RRM}	V		150	200
Maximum RMS Voltage	V_{RMS}	V		105	140
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, TL(Fig.1)	1.0	
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	30	
Junction Temperature	T_J	$^\circ\text{C}$		-55 ~ +150	
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~ +150	

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	DSS 115	DSS 120
Peak Forward Voltage	V_F	V	$I_F=1.0\text{A}$	0.95	
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	0.1
	I_{RRM2}			$T_a=100^\circ\text{C}$	0.2
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient	88 ¹⁾	
	$R_{\theta J-L}$		Between junction and terminal	28 ¹⁾	

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

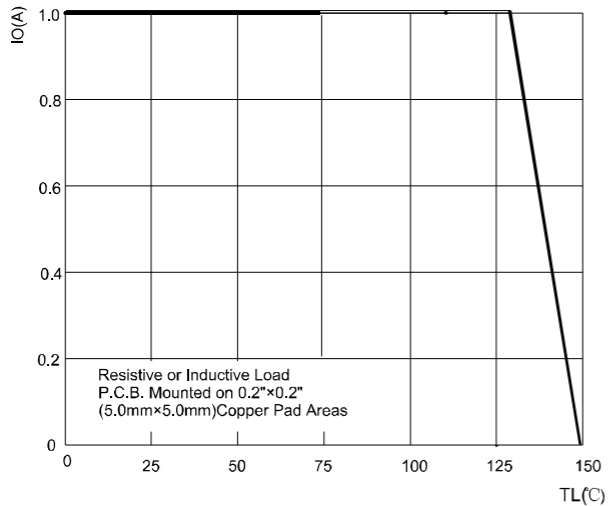


FIG2: SURGE FORWARD CURRENT CAPABILITY

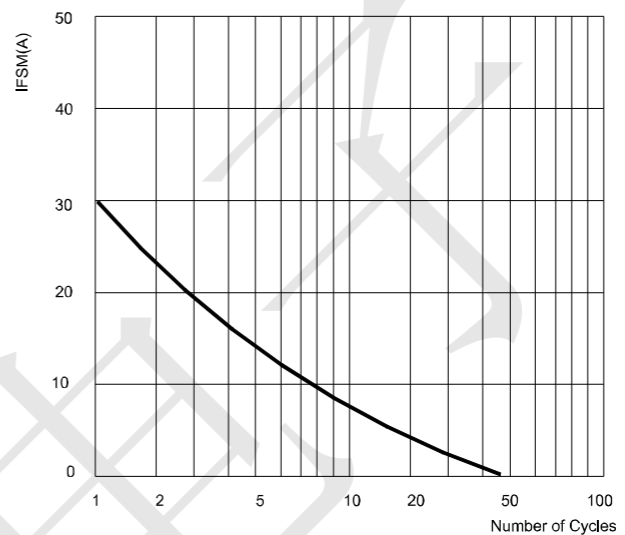


FIG3: TYPICAL FORWARD CHARACTERISTICS

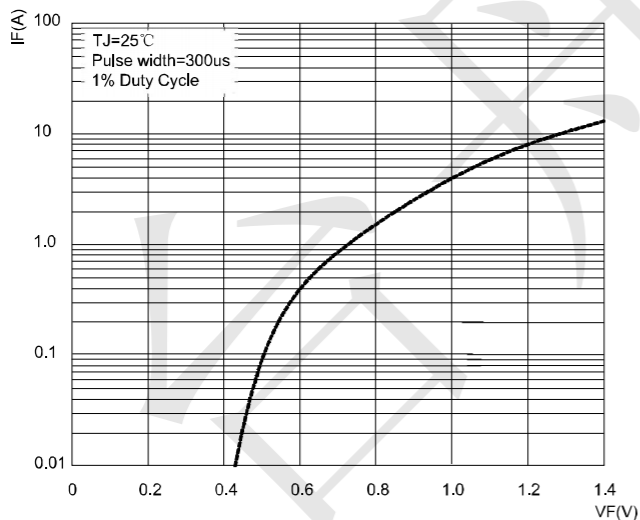
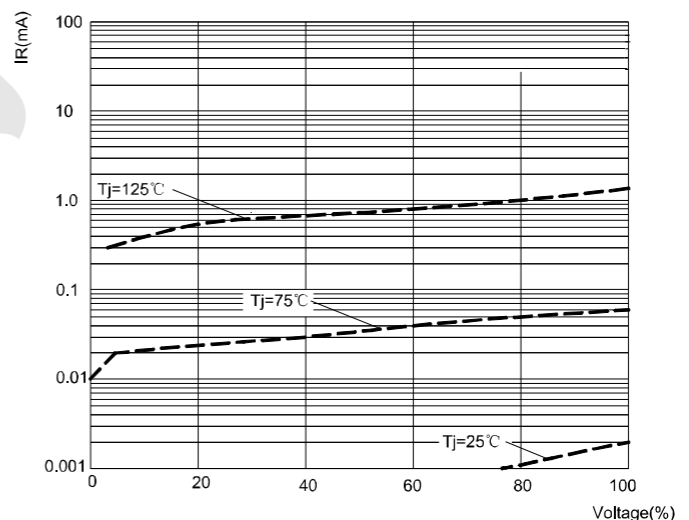
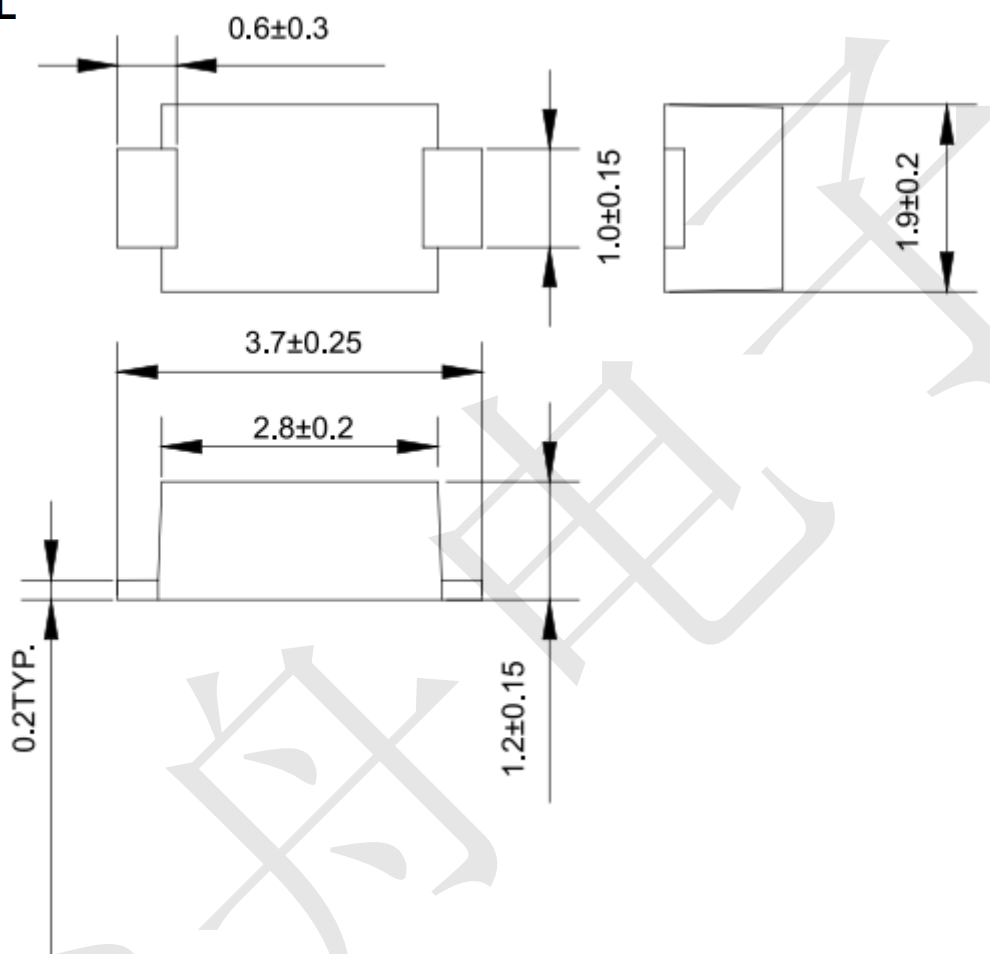


FIG.4 : TYPICAL REVERSE CHARACTERISTICS



Package information (Unit: mm)

SOD-123FL



Mounting Pad Layout (Unit: mm)

