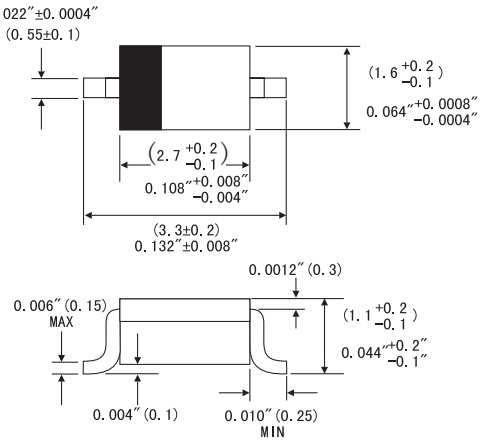
FEATURES

- For general purpose applications
- These diodes features very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- This diode is also available in the Mini-MELF case with the type designation LL46 and in the DO-35 case with the type designation BAT46, in the Micro-MELF case with type designation MCL46

SOD-123



Dimensions in inches and (millimeters)

MECHANICAL DATA

- *Case*: SOD-123 plastic case
- *Weight*: Approx. 0.01 gram

ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Forward Continuous Current at T_A=25°C	I_F	150 [1)]	mA
Repetitive Peak Forward Current at t_p <1s, δ <0.5, T_A=25°C	I_{FRM}	350 [1)]	mA
Surge forward current at t_p <10mS , T_A=25°C	I_{FSM}	750 [1)]	mA
Power Dissipation[1)] at T_A=65°C	P_{tot}	150 [1)]	mW
Junction temperature	T_J	125	℃
Ambient Operating temperature Range	T_A	-65 to+125	℃
Storage Temperature Range	T_{STG}	-65 to+150	℃
1) Valid provided that electrodes are kept at ambient temperature			

JINAN JINGHENG CO., LTD. NO.51 HEPING ROAD PR CHINA TEL:86-531-6943657 FAX:86-531-6947096 WWW.JIFUSEMICON.COM

ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

	Symbols	Min.	Typ.	Max.	Unis
Reverse breakdown voltage Tested with 100μA Pulses	$V_{(BR)R}$	100			V
Forward voltage Pulse Test t_P <300μs,at V_R=10V, T_J=60 °C ,δ <2% at I_F=0.1mA, at I_F=10mA, at I_F=250mA	 V_F V_F V_F			 0.25 0.45 1	 V V V
Leakage current pulse test t_P <300μs ,δ <2% at V_R=1.5V, at V_R=1.5V, T_J=60 °C at V_R=10V at V_R=10V, T_J=60 °C at V_R=50V at V_R=50V, T_J=60 °C at V_R=75V at V_R=75V, T_J=60 °C	 I_R I_R I_R I_R I_R I_R I_R I_R			 0.5 5 0.8 7.5 2 15 5 20	 μA μA μA μA μA μA μA μA
Junction Capacitance at V_R=0V ,f=1MHz at V_R=1V ,f=1MHz	C_J C_J		10 6		pF pF
Thermal resistance junction to ambient Air	$R_{\theta JA}$			300 [1]	K/W

1) Valid provided that electrodes are kept at ambient temperature

JINAN JINGHENG CO., LTD. NO.51 HEPING ROAD PR CHINA TEL:86-531-6943657 FAX:86-531-6947096 WWW.JIFUSEMICON.COM