

VOLTAGE RANGE: 15 V

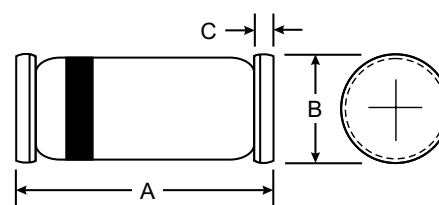
CURRENT: 30 mA

Features

- For general purpose applications
- This diode features low turn-on voltage and high breakdown voltage. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges

Mechanical Data

- Case: LL34(SOD-80), Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.05 grams (approx.)



LL34/ SOD-80		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50
All Dimensions in mm		

Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak reverse voltage	V_{RRM}	15	V
Forward continuous current	I_F	30 ¹⁾	mA
Surge non repetitive forward current $t_p \leq 1\text{s}$	I_{FSM}	60	mA
Junction temperature	T_J	-65 --- + 150	$^\circ\text{C}$
Storage temperature range	T_{STG}	-65 --- + 150	$^\circ\text{C}$
1) Valid provided that electrodes are kept at ambient temperature.			

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

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse breakdown voltage @ $I_R = 10 \mu\text{A}$	V_R	15			V
Leakage current @ $V_R = 6\text{V}$	I_R			100	nA
Forward voltage drop @ $I_F = 1.0\text{mA}$ Test pulse: $t_p \leq 300 \mu\text{s}$, $\delta < 2\%$ $I_F = 10\text{mA}$ $I_F = 30\text{mA}$	V_F			0.38 0.5 1.0	V
Junction capacitance @ $V_R = 1.0\text{V}$, $f = 1\text{MHz}$	C_J			1.1	pF
Thermal resistance junction to ambient air	$R_{\theta JA}$			400	K/W

Ratings AND Characteristic Curves LL45

**FIG.1 – FORWARD CURRENT VERSUS FORWARD VOLTAGE
AT DIFFERENT TEMPERATURES (TYPICAL VALUES)**

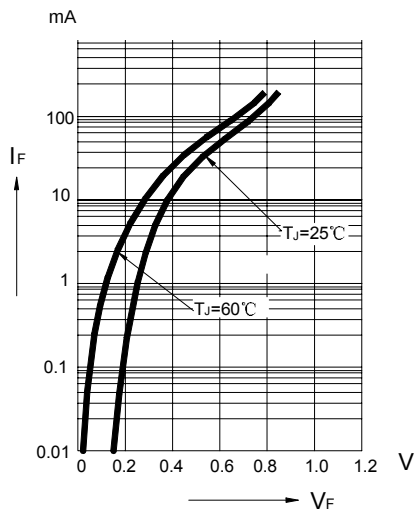


FIG.2 – REVERSE CURRENT VERSUS JUNCTION TEMPERATURE

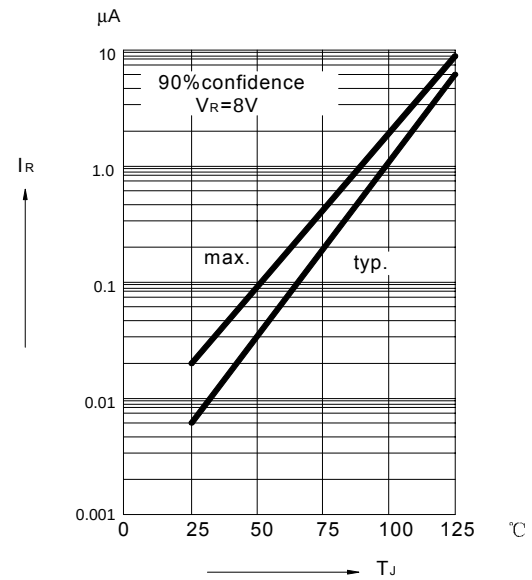


FIG.3 – REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE

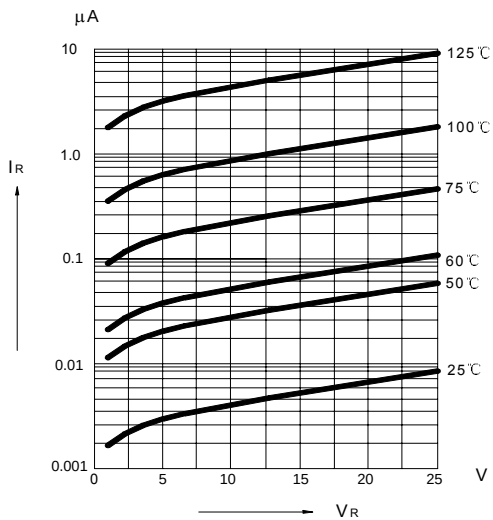


FIG.4 – FORWARD CURRENT VERSUS FORWARD VOLTAGE (TYPICAL VALUES)

