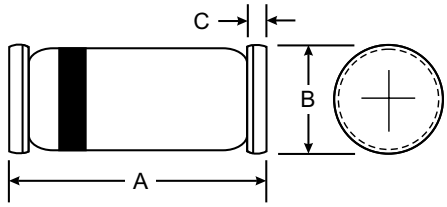
LL45

SURFACE MOUNT SMALL SIGNAL SCHOTTKY DIODES

Features

- Forgeneralpurposeapplications
- Thisdiode featureslow turn-onvoltageandhigh breakdownvoltage. Thisdeviceisprotectedby a PNjunctionguardringagainst excessivevoltage, suchaselectrostaticdischarges



Mechanical Data

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

RoHS COMPLIANT

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°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 tp≤1s	I_{FSM}	60	mA
Junction tenperature	T_J	-65 ---+ 150	℃
Storage temperature range	T_{STG}	-65 ---+ 150	℃
1)Valid provided that electrodes are kept at ambient temperature.			

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

Characteristic	**Symbol**	Min.	Typ.	Max.	**Unit**
Reverse breakdown voltage @ I_R=10μA	V_R	15			V
Leakage current @ V_R=6V	I_R			100	nA
Forw ard voltage drop @ I_F=1.0mA Test pulse:tp≤300μs,δ＜2% I_F=10mA I_F=30mA	V_F			0.38 0.5 1.0	V
Junction capacitance @ V_R=1.0V,f=1MHz	C_J			1.1	pF
Termal resistance junction to ambient air	$R_{\theta JA}$			400	K/W

Ratings AND Charactieristic Curves LL45

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

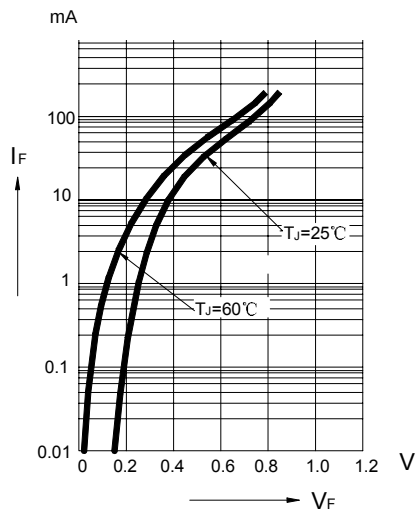


FIG.2 -- REVERSE CURRENT VERSUS JUNCTION TEMPERATURE

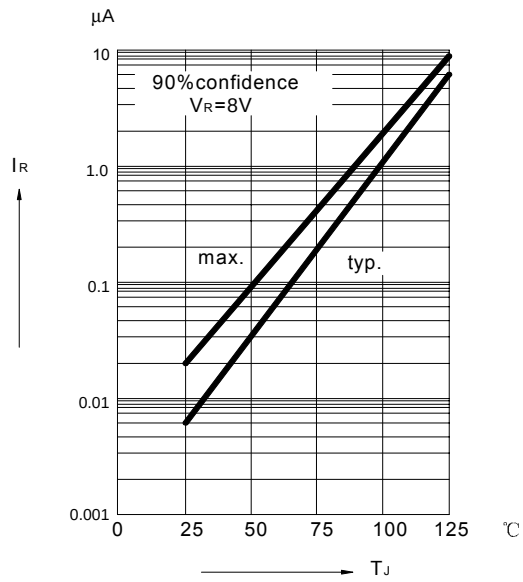


FIG.3 -- REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE

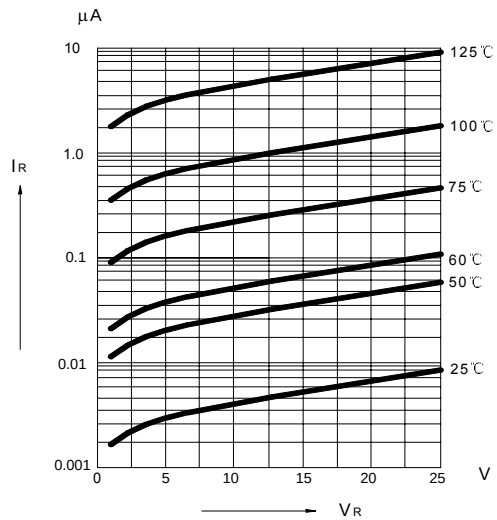


FIG.4 -- FORWARD CURRENT VERSUS FORWARD VOLTAGE (TYPICAL VALUES)