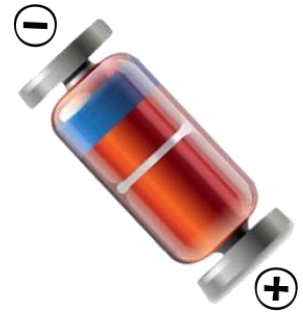


## SCHOTTKY BARRIER DIODE

### FEATURES

- For general applications
- Low turn-on voltage
- PN junction guard ring



LL-34

### MECHANICAL DATA

- Case: LL-34
- Case Material: Glass
- Polarity: Color band denotes cathode end



### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Value	Unit
Continuous reverse voltage	$V_R$	30	V
Forward continuous current*	$I_F$	200	mA
Peak forward current*	$I_{FM}$	300	mA
Surge forward current* @ $t_p = 1\text{s}$	$I_{FSM}$	600	mA
Power dissipation* @ $T_A = 65^\circ\text{C}$	$P_{tot}$	200	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Operating temperature range	$T_A$	-65 to +125	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-65 to +150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse breakdown voltage 10 $\mu\text{A}$ pulses	$V_{(BR)R}$	30	—	—	V

\* Valid provided that electrodes are kept at ambient temperature.

SCHOTTKY BARRIER DIODE

Typical Characteristics

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

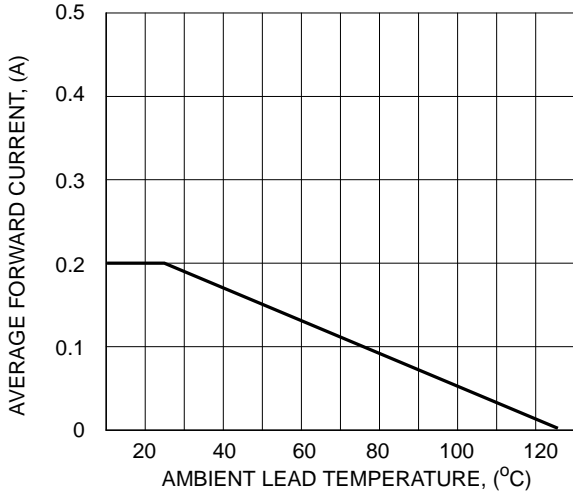


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

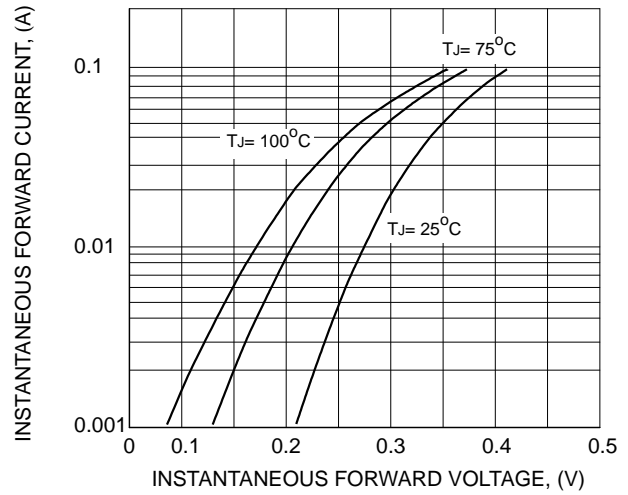


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

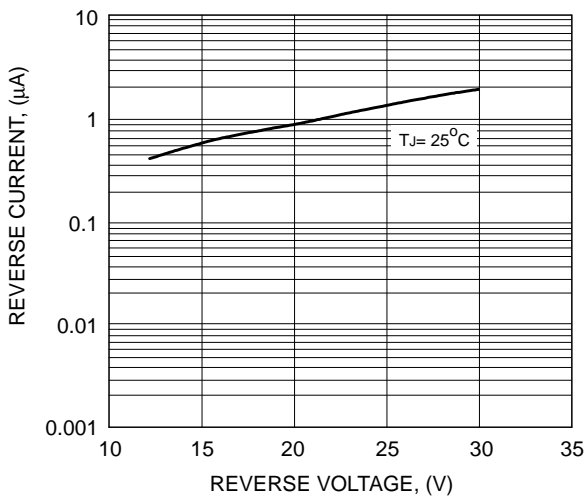


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

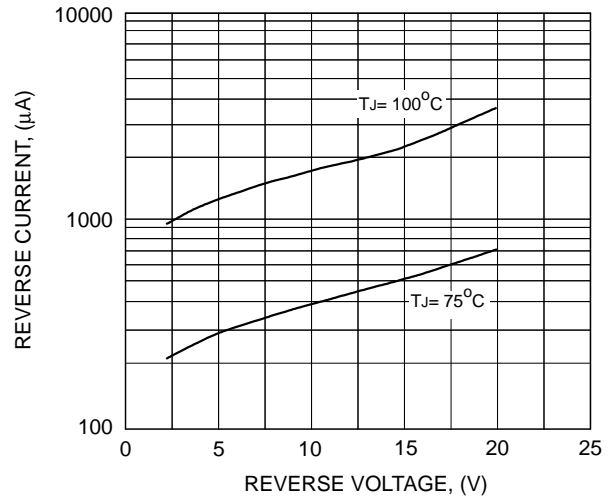
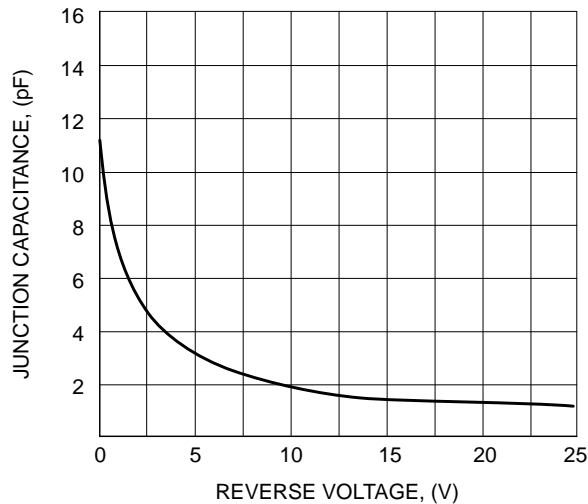
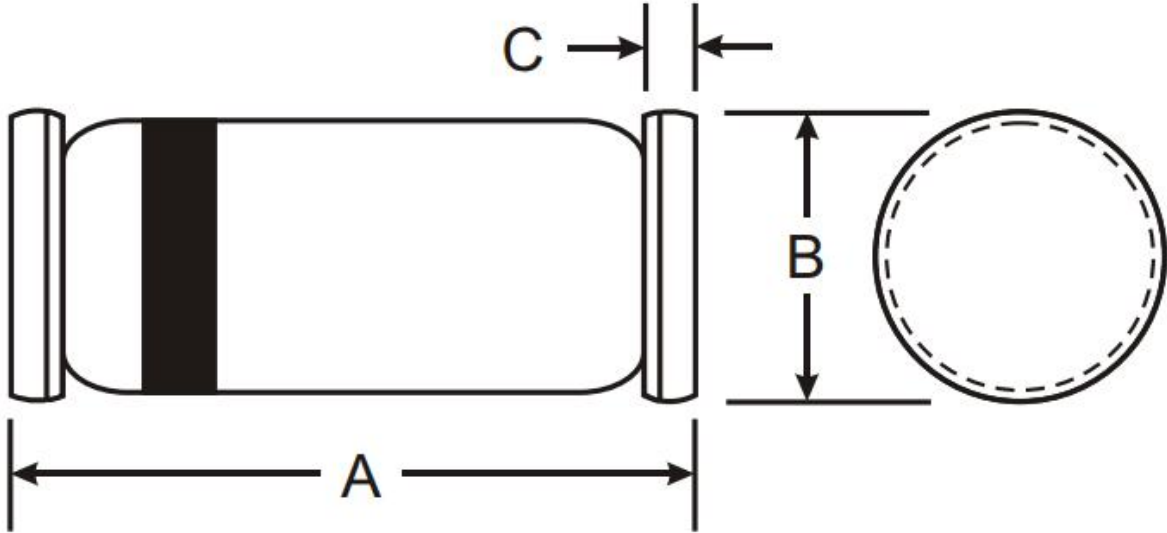


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



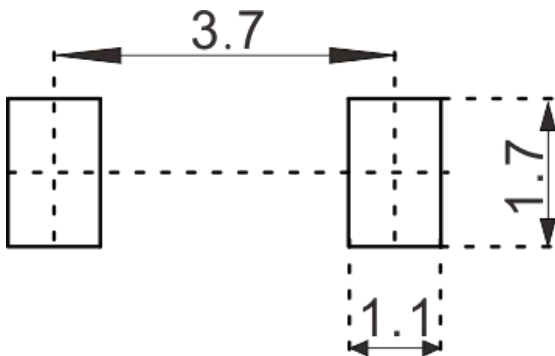
SCHOTTKY BARRIER DIODE

**LL-34 Package Outline Dimensions**



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	3.300	3.700	0.130	0.147
B	1.300	1.600	0.051	0.063
C	0.280	0.500	0.011	0.020

**LL-34 Suggested Pad Layout**



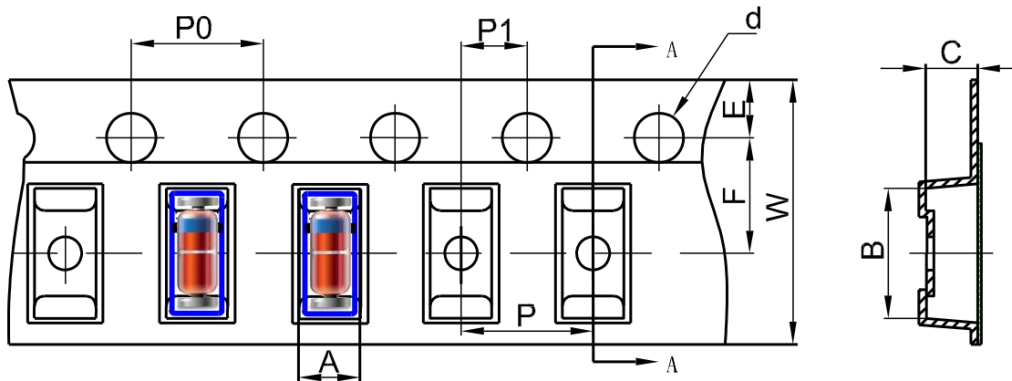
**Note:**

1. Controlling dimension: in millimeters
2. General tolerance:  $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

SCHOTTKY BARRIER DIODE

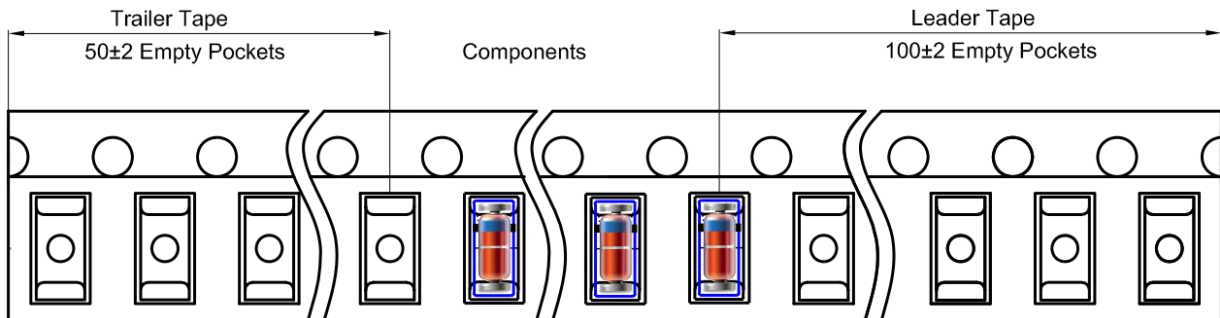
**LL-34 Tape and Reel**

**LL-34 Embossed Carrier Tape**

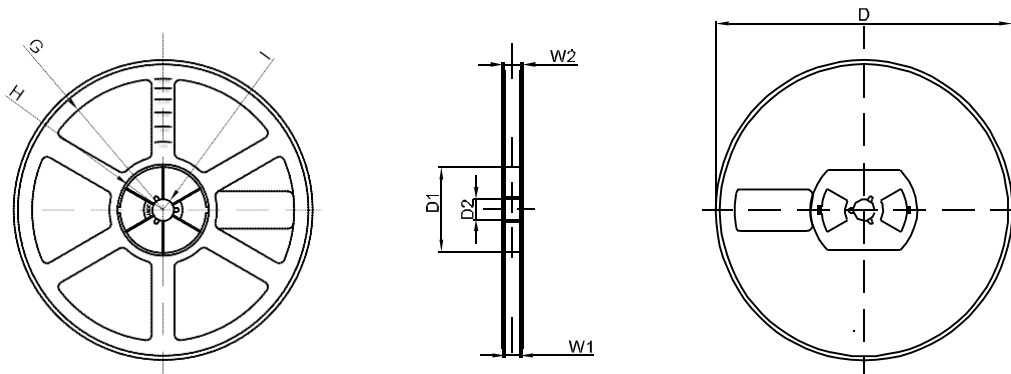


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
LL-34	1.60	3.90	1.60	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
TOLERANCE	±0.05	±0.05	±0.05	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

**LL-34 Tape Leader and Trailer**



**LL-34 Reel**



DIMENSIONS ARE IN MILLIMETER								
REEL OPTION	D	D1	D2	G	H	I	W1	W2
7" DIA	Ø178	54.40	13.00	R78	R25.60	R6.50	9.50	12.30
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1