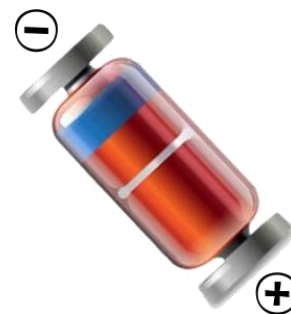
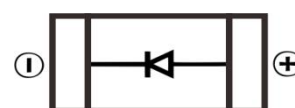


SCHOTTKY BARRIER DIODE
FEATURES

- Low forward voltage
- High breakdown voltage
- Guard ring protected


LL-34
MECHANICAL DATA

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


MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Rating	Unit
continuous reverse voltage	V _R	30	V
continuous forward current	I _F	200	mA
average forward current (V _{RWM} = 25 V; a = 1.57; δ = 0.5)	I _{F(AV)}	200	mA
repetitive peak forward current (t _p ≤ 1 s; δ ≤ 0.5)	I _{FRM}	300	mA
non-repetitive peak forward current (t _p = 10 ms)	I _{FSM}	5	A
thermal resistance from junction to ambient	R _{th j-a}	320	K/W
operating ambient temperature	T _{amb}	-65 to +125	°C
junction temperature	T _j	125	°C
storage temperature	T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Testconditions	Max	Unit
forward voltage	V _F	I _F = 0.1 mA	240	mV
		I _F = 1 mA	320	
		I _F = 10 mA	400	
		I _F = 30 mA	500	
		I _F = 100 mA	800	
reverse current	I _R	V _R = 25 V *	2.3	μ A
diode capacitance	C _d	f = 1 MHz; V _R = 1 V	10	pF

* Pulsed test: t_p = 300 μs; δ = 0.02.

SCHOTTKY BARRIER DIODE

Typical Characteristics

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

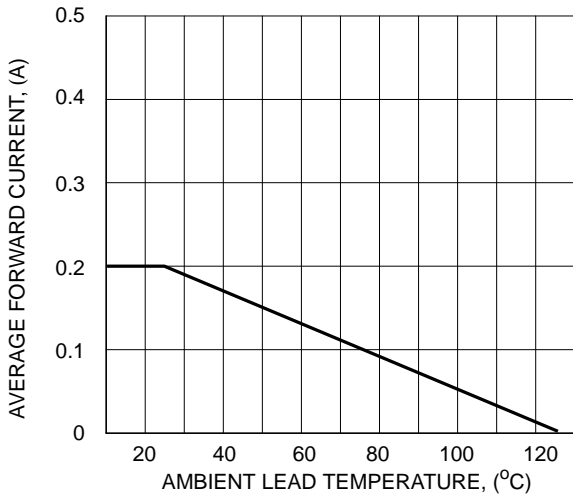


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

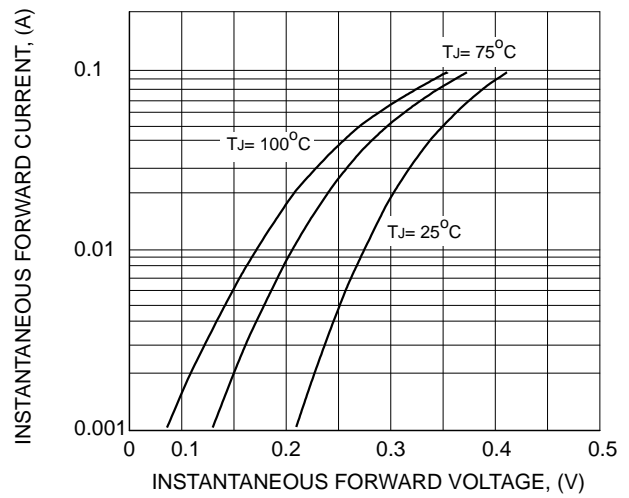


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

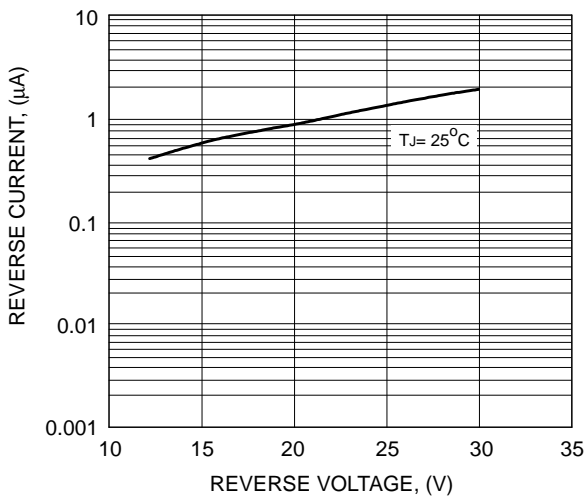


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

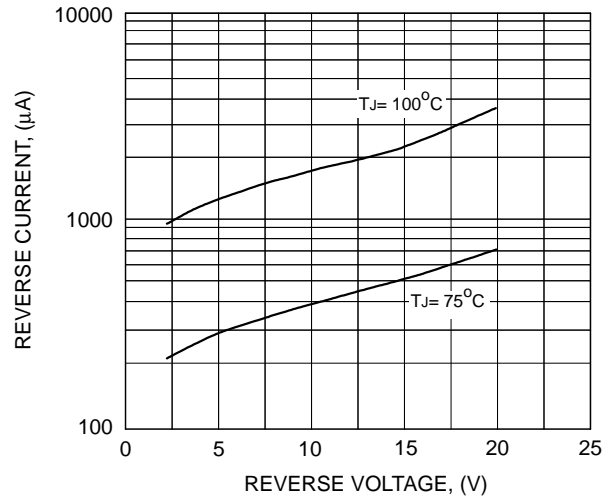
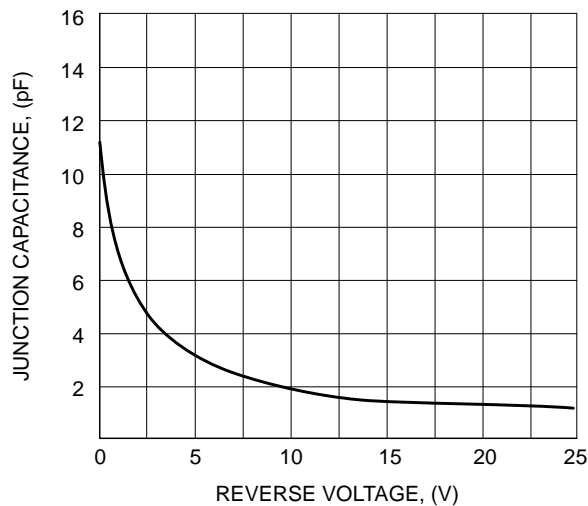
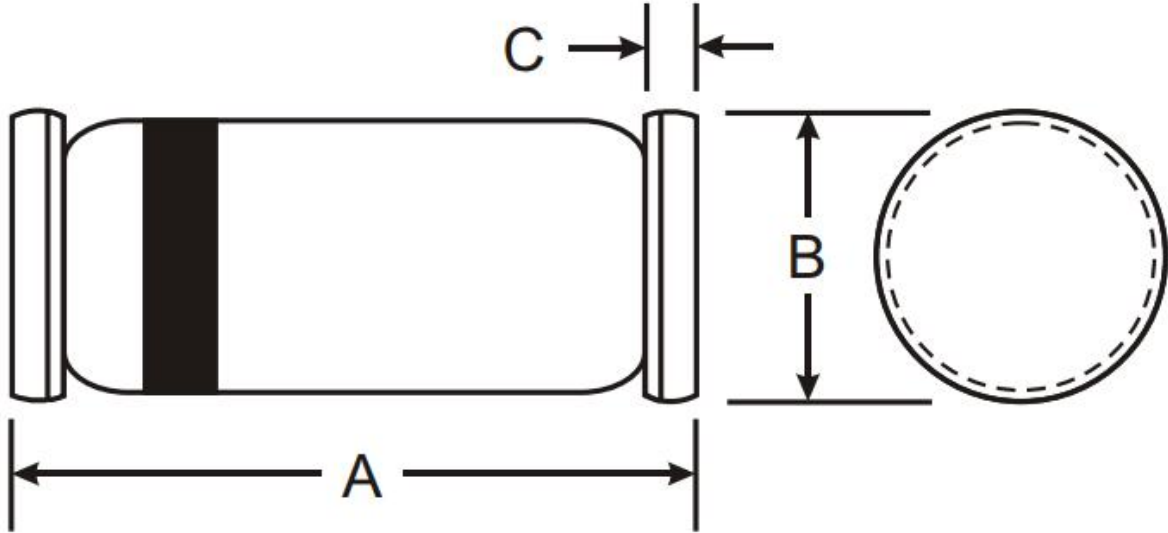


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



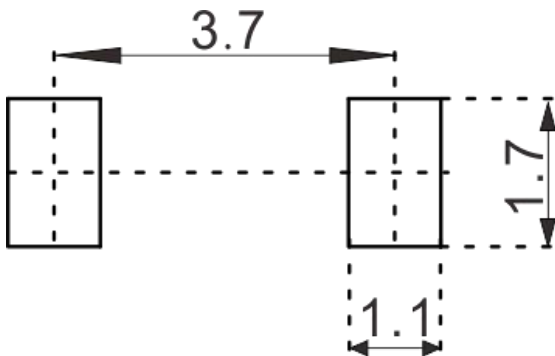
SCHOTTKY BARRIER DIODE

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



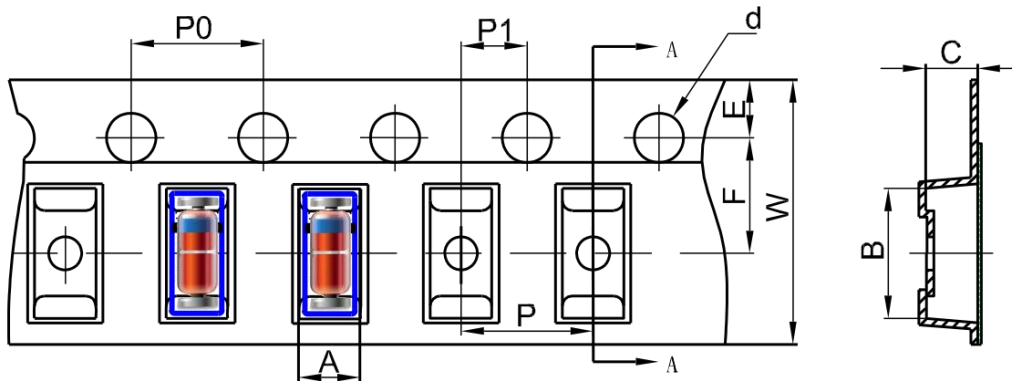
Note:

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

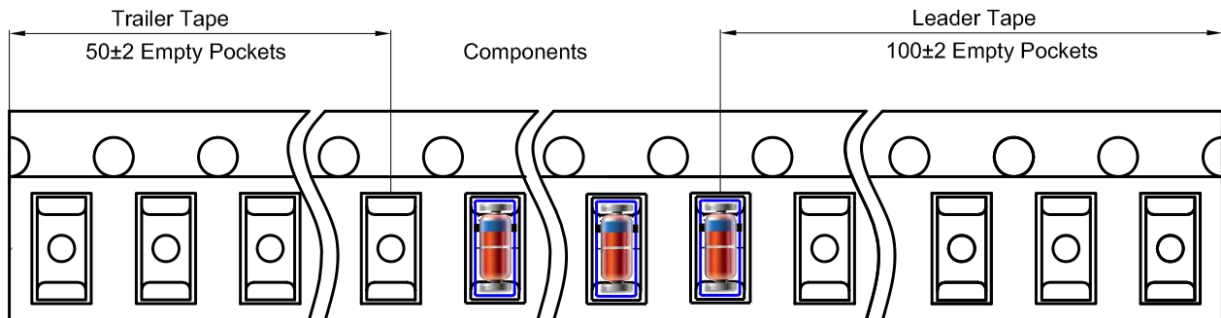
LL-34 Tape and Reel

LL-34 Embossed Carrier Tape

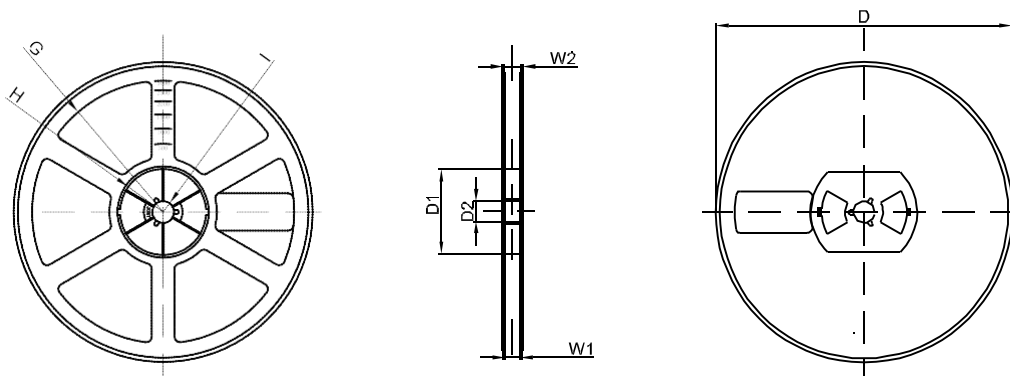


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
LL-34	1.60	3.90	1.60	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
TOLERANCE	±0.05	±0.05	±0.05	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

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