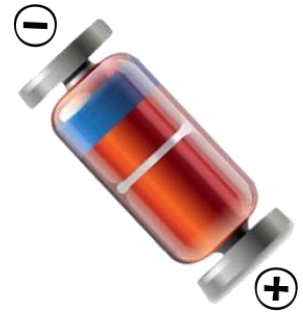


SCHOTTKY BARRIER DIODE
FEATURES

- For general purpose applications
- This diode 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


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	Symbols	Value	UNITS
Continuous reverse voltage	V _R	50	V
Forward continuous current @ T _A =25°C	I _F	200 ¹⁾	mA
Peak forward current @ T _A =25°C	I _{FM}	500 ¹⁾	mA
Surge forward current @ t _p <1s, T _A =25°C	I _{FSM}	5 ¹⁾	A
Power dissipation @ T _A =65°C	P _{tot}	200 ¹⁾	mW
Junction temperature	T _J	125	°C
Ambient operating temperature range	T _A	-55 ----+ 125	°C
Storage temperature range	T _{STG}	-55 ----+ 150	°C

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

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

	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage	V _R	50.0			V
Forward voltage Pulse test t _p <300 μs, δ <2% @ I _F =0.1mA @ I _F =1mA @ I _F =10mA @ I _F =30mA @ I _F =100mA	V _F			0.30 0.38 0.45 0.60 0.90	V V V V V
Leakage current V _R =40V	I _R			5.0	μA
Diode capacitance at V _R =1V, f=1MHz	C _d			8	pF
Reverse recovery time @ I _F =10mA, I _R =10mA, I _R =1mA	t _{rr}			5	ns
Thermal resistance junction to ambient	R _{θJA}			430 ¹⁾	°C/W

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

SCHOTTKY BARRIER DIODE

Typical Characteristics

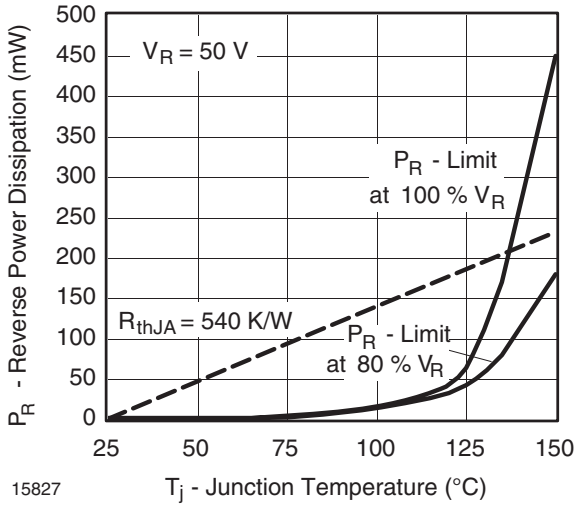


Figure 1. Max. Reverse Power Dissipation vs. Junction Temperature

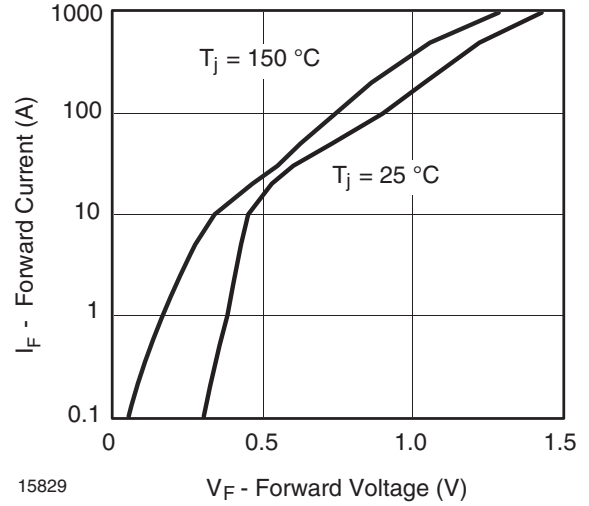


Figure 3. Forward Current vs. Forward Voltage

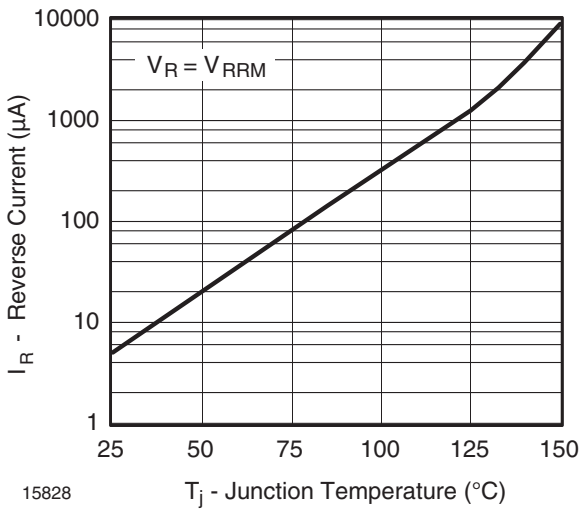


Figure 2. Reverse Current vs. Junction Temperature

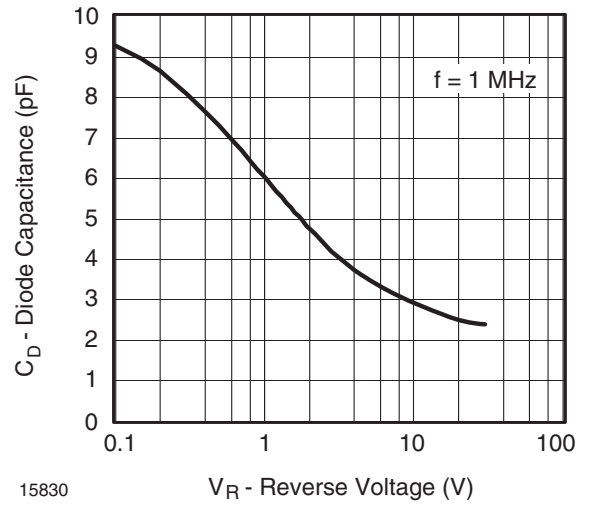
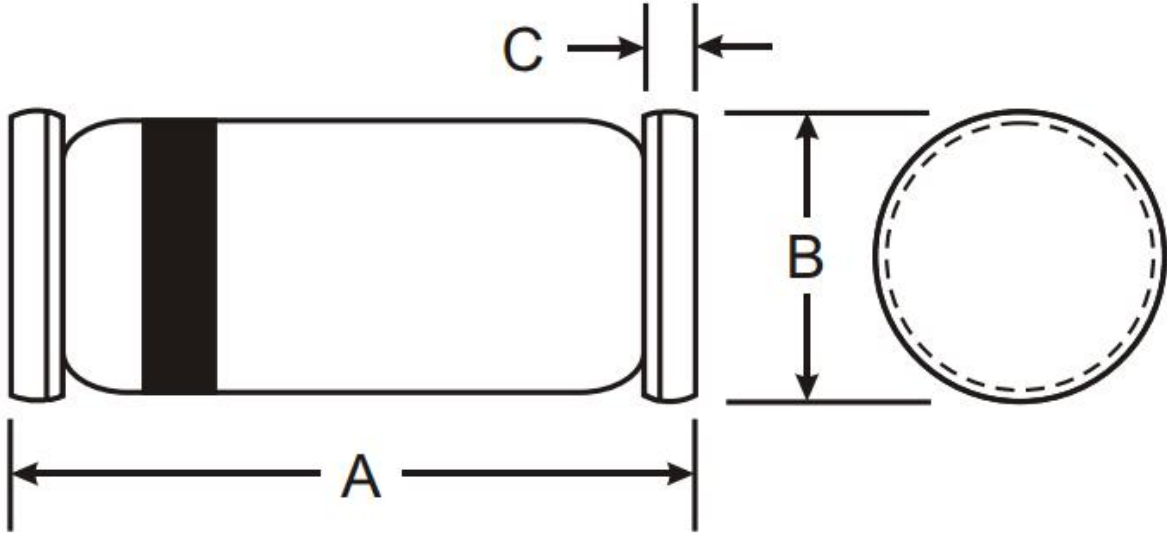


Figure 4. Diode Capacitance vs. Reverse Voltage

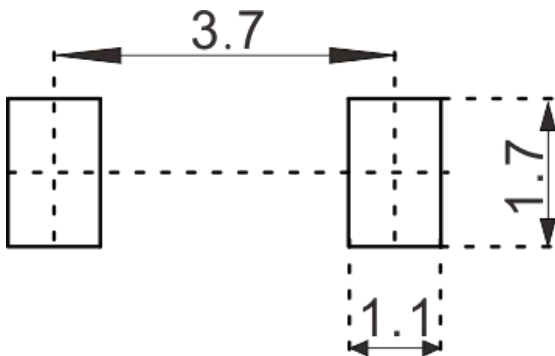
SCHOTTKY BARRIER DIODE

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



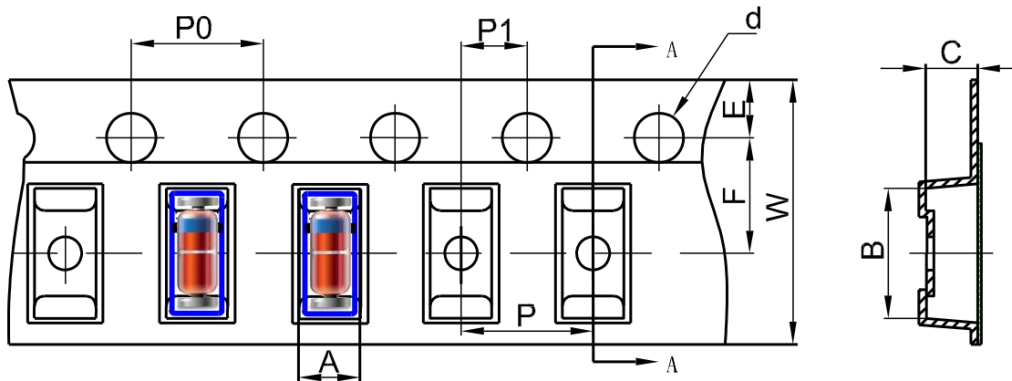
Note:

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

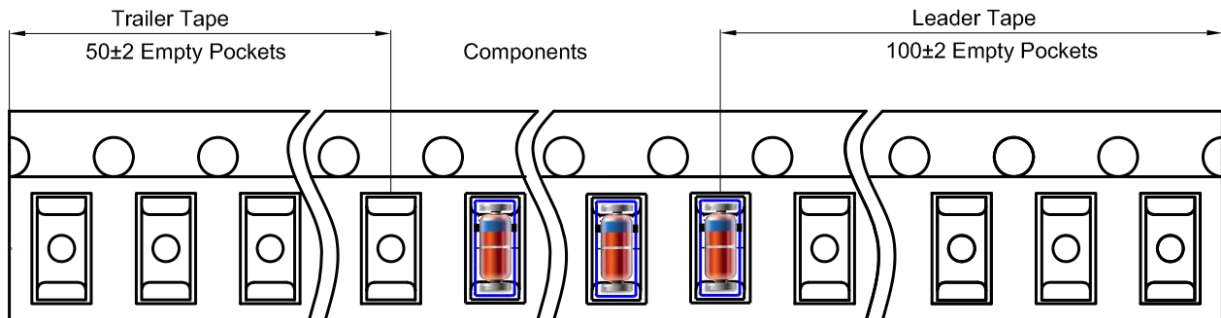
LL-34 Tape and Reel

LL-34 Embossed Carrier Tape

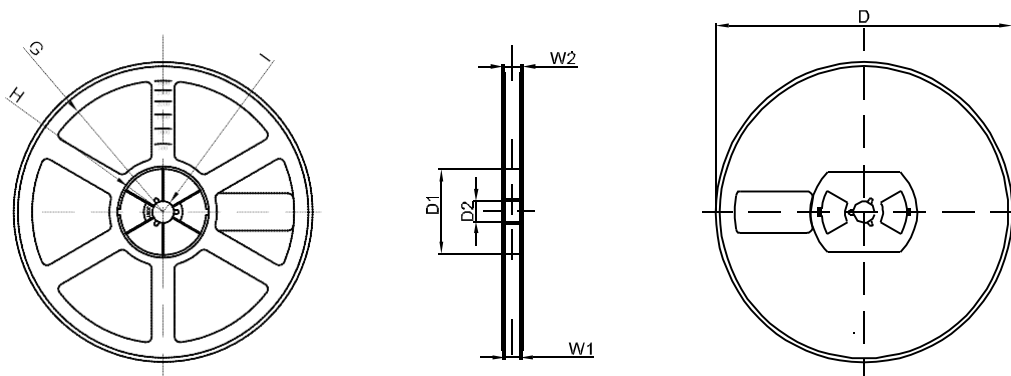


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
LL-34	1.60	3.90	1.60	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
TOLERANCE	±0.05	±0.05	±0.05	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

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