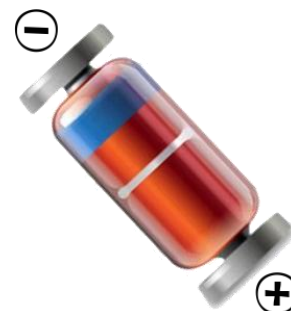
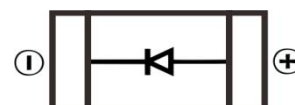


SMALL SIGNAL SCHOTTKY DIODES
FEATURES

- Very small conduction losses
- Negligible switching losses
- Low forward voltage drop
- Surface Mount device


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	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	30	V
DC Blocking Reverse Voltage	V _R	30	V
RMS Reverse Voltage	V _{R(RMS)}	21	V
Forward Current	I _F	200	mA
Repetitive peak forward current (t _p ≤ 1s, δ ≤ 0.5)	I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current @ t _p =10ms	I _{FSM}	4.0	A
Power Dissipation	P _D	200	mW
Thermal Resistance From Junction To Leads	R _{θJL}	300	°C/W
Operating junction temperature range	T _J	-55 ~ +125	°C
Storage Temperature	T _{STG}	-55 ~ +160	°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
DC Blocking Reverse Voltage	V _R	30			V	I _R =100μA
Forward voltage	V _F			1	V	I _F =200mA
				0.4		I _F =10mA
				0.65		I _F =50mA
				0.26		I _F =2mA
				0.45		I _F =15mA
Reverse voltage leakage current	I _R			0.5	μA	V _R =25V, T _j = 25°C
				100		V _R =25V, T _j = 100°C
Diode capacitance	C _D		7		pF	V _R =1V, f=1MHz
Reverse recovery time	T _{rr}			5	nS	I _F =I _R =10mA I _{rr} =1mA R _L =100Ω

SMALL SIGNAL SCHOTTKY DIODES

Typical Characteristics

Figure 1. Forward voltage drop versus forward current (typical values, high level)

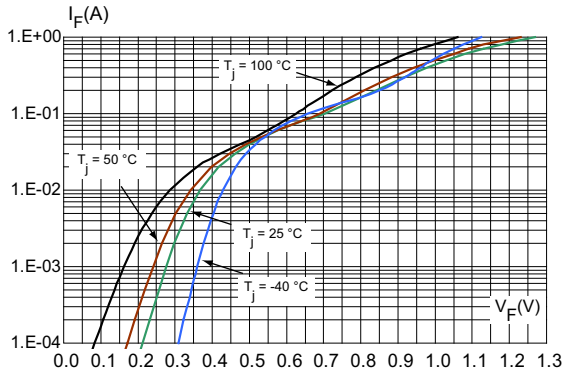


Figure 2. Forward voltage drop versus forward current (typical values)

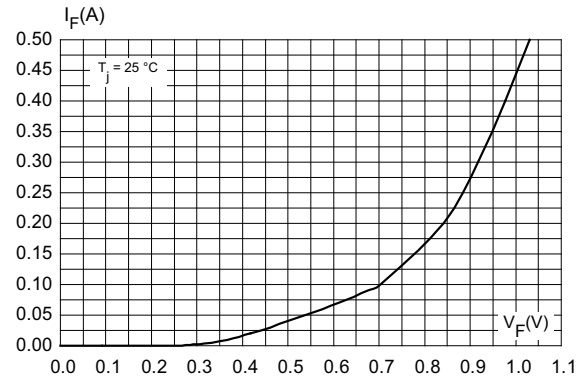


Figure 3. Leakage current versus reverse voltage applied (typical values)

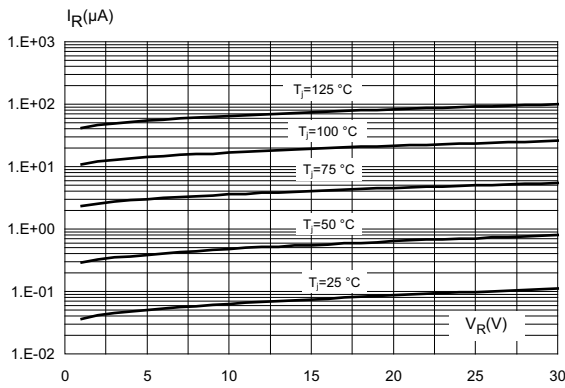
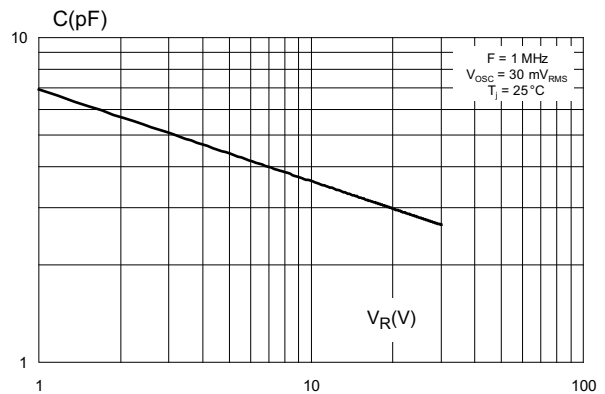
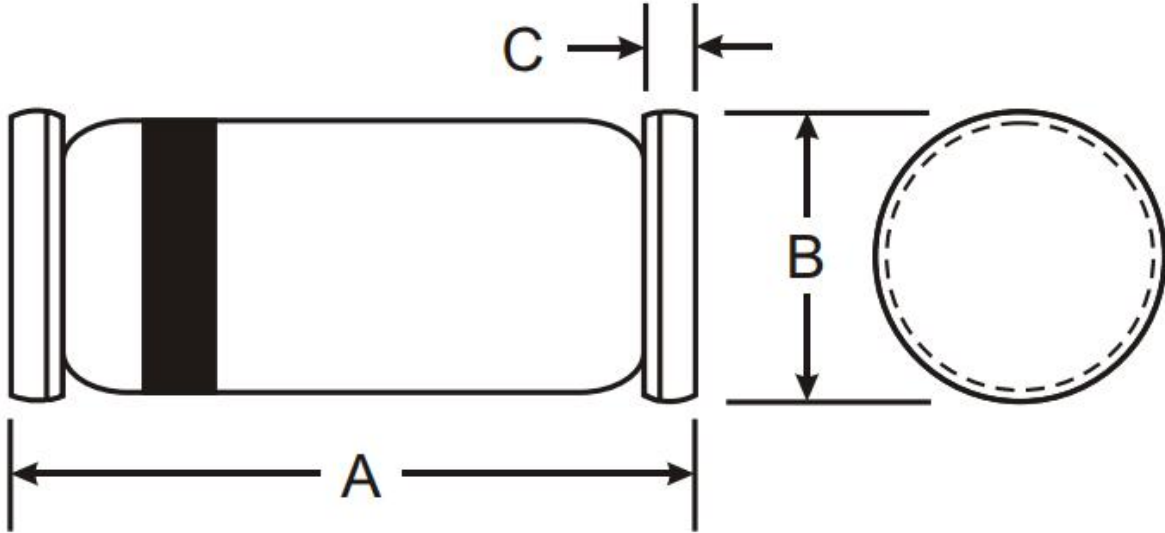


Figure 4. Junction capacitance versus reverse voltage applied (typical values)



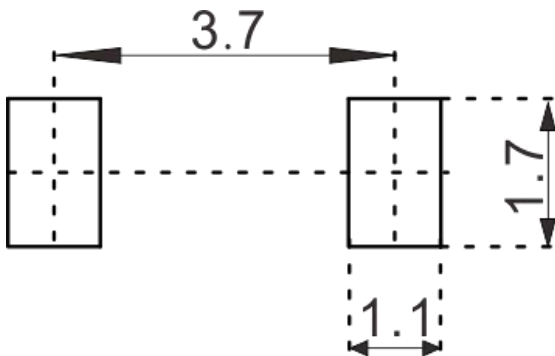
SMALL SIGNAL SCHOTTKY DIODES

LL-34 Package Outline Dimensions



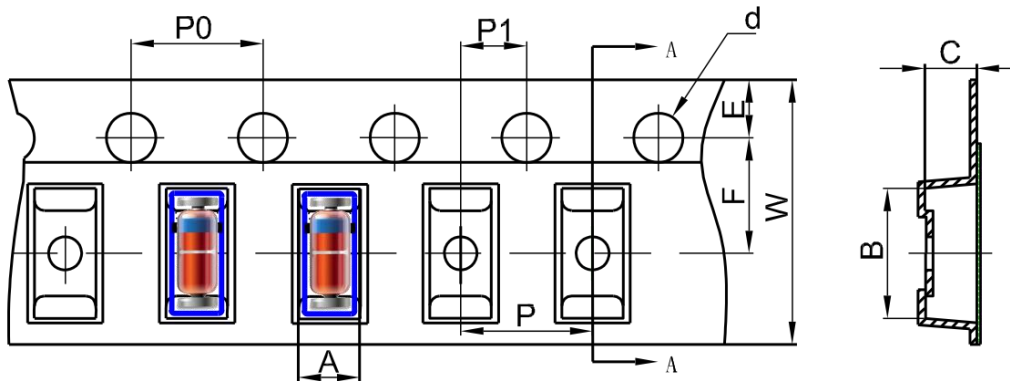
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	3.300	3.700	0.130	0.147
B	1.300	1.600	0.051	0.063
C	0.280	0.500	0.011	0.020

LL-34 Suggested Pad Layout

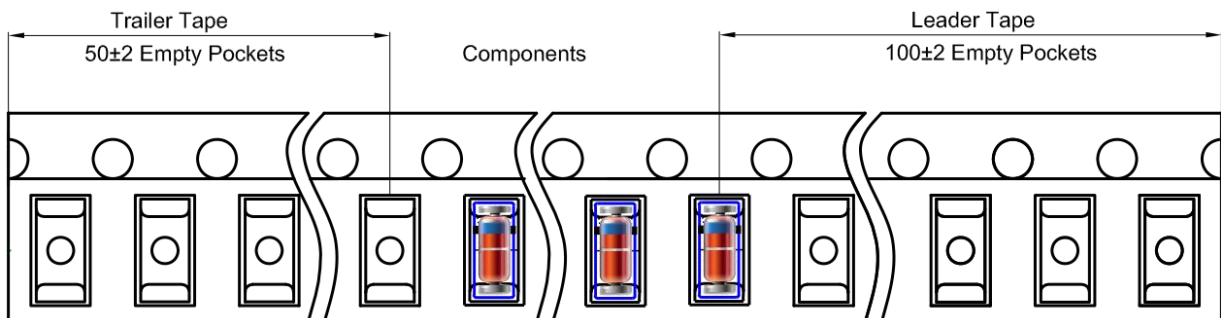
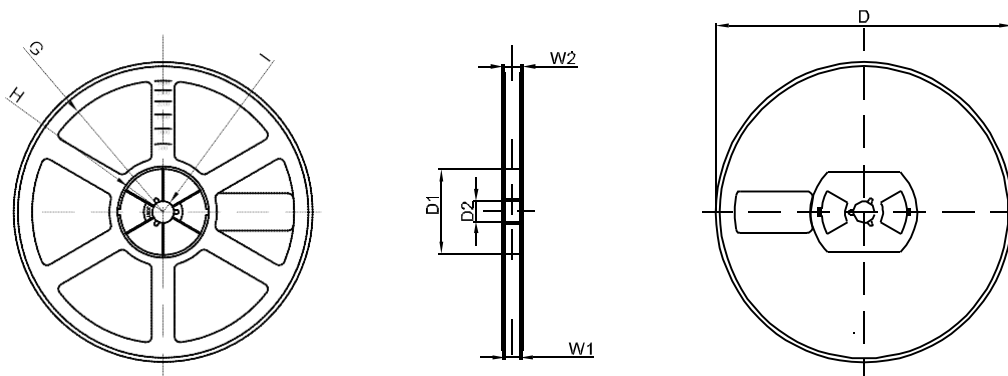


Note:

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

SMALL SIGNAL SCHOTTKY DIODES
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