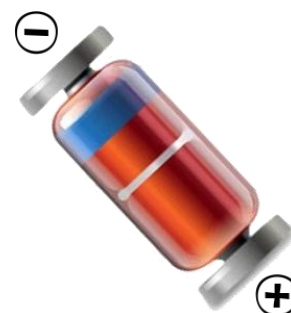


SWITCHING DIODE
FEATURES

- Fast Switching
- High Conductance
- Surface Mount device
- For General Purpose Switching Applications


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)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
DC Blocking Reverse Voltage	V_R	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	75	V
Forward Current	I_F	500	mA
Average Rectified Output Current	I_O	150	mA
Non-Repetitive Peak Forward Surge Current @ $t @ = 8.3\text{ms}$	I_{FSM}	2.0	A
Power Dissipation	P_D	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	350	$^{\circ}\text{C/W}$
Junction Temperature	T_J	175	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +175	$^{\circ}\text{C}$

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

Parameter	Symbol	Min	Max	Unit	Conditions
Forward voltage	V_F		1	V	$I_F = 50\text{mA}$
Reverse voltage leakage current	I_R		5	μA	$V_R = 75\text{V}$
Diode capacitance	C_D		4	pF	$V_R = 0\text{V}, f = 1\text{MHz}$
Reverse recovery time	T_{rr}		4	nS	$I_F = I_R = 10\text{mA}$ $I_{rr} = 0.1 \times I_R$ $R_L = 100\Omega$

SWITCHING DIODE

Typical Characteristics

FIG.1 - FORWARD CURRENT VS. FORWARD VOLTAGE

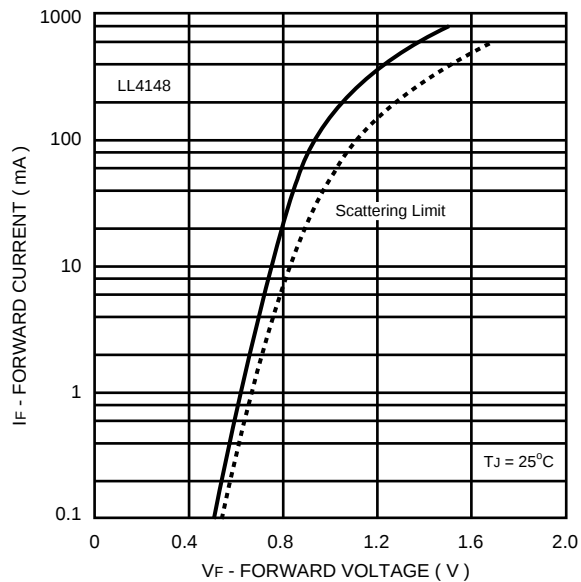


FIG.2 - FORWARD CURRENT VS. FORWARD VOLTAGE

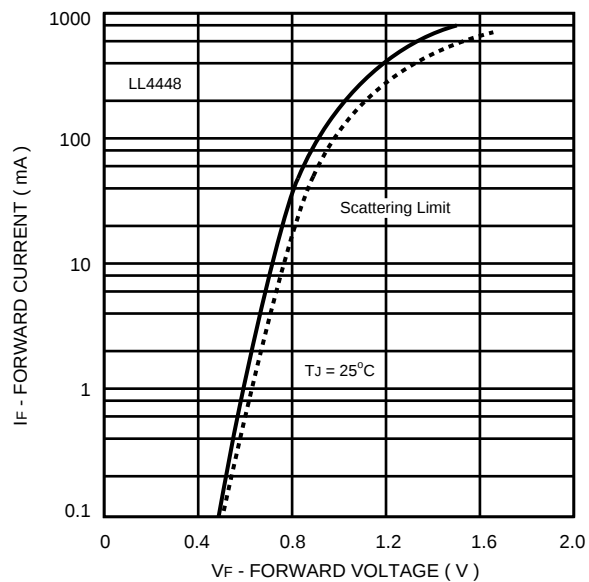


FIG.3 - REVERSE CURRENT VS. REVERSE VOLTAGE

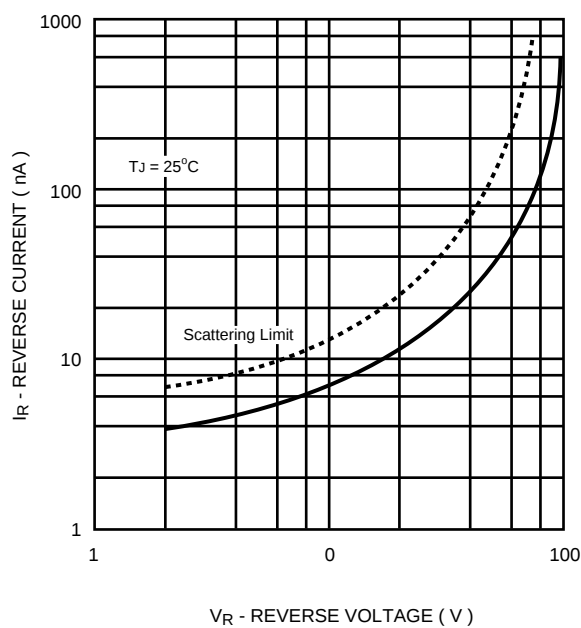
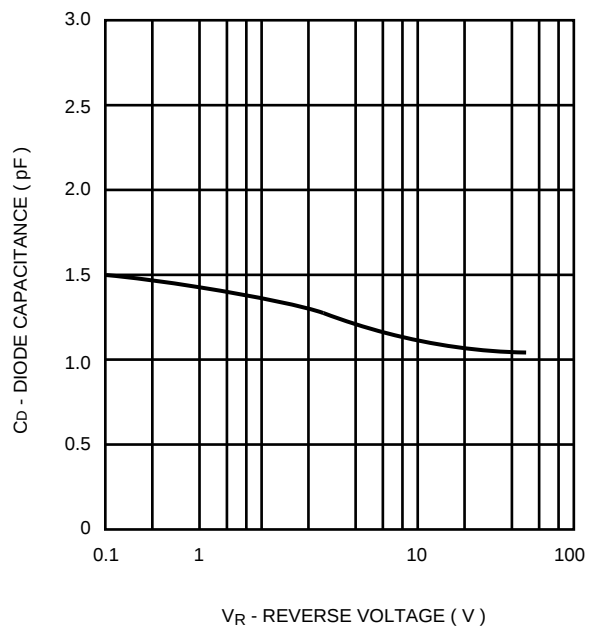
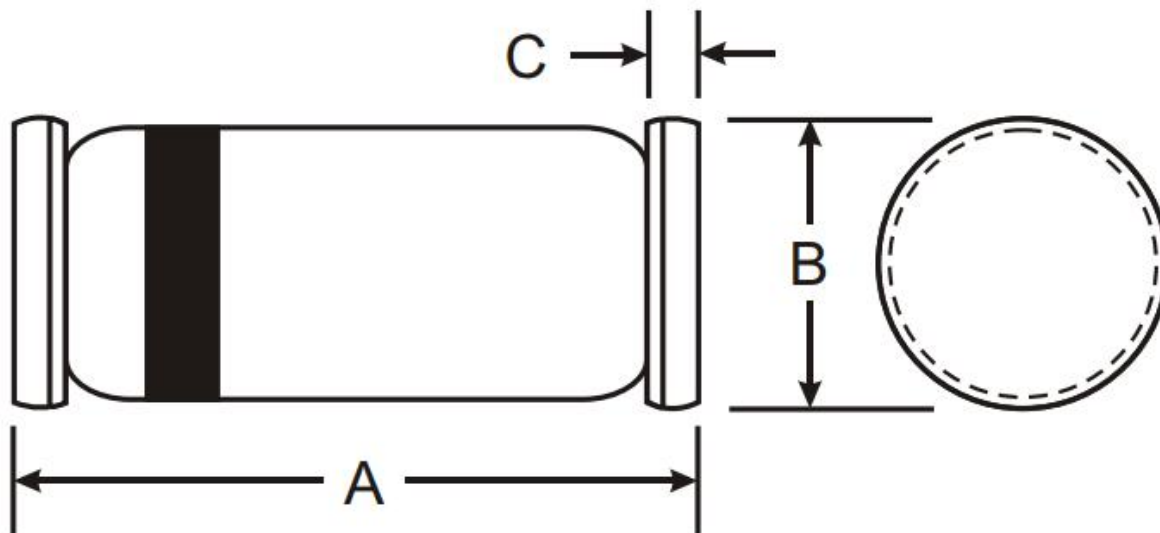
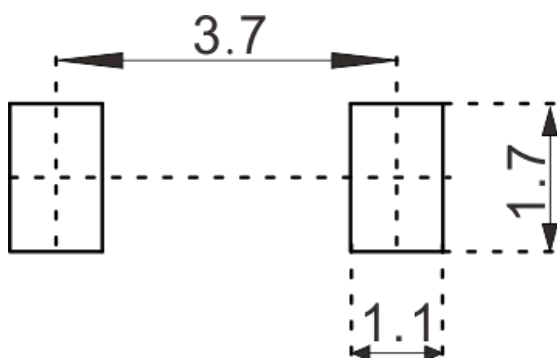


FIG.4 - DIODE CAPACITANCE VS. REVERSE VOLTAGE

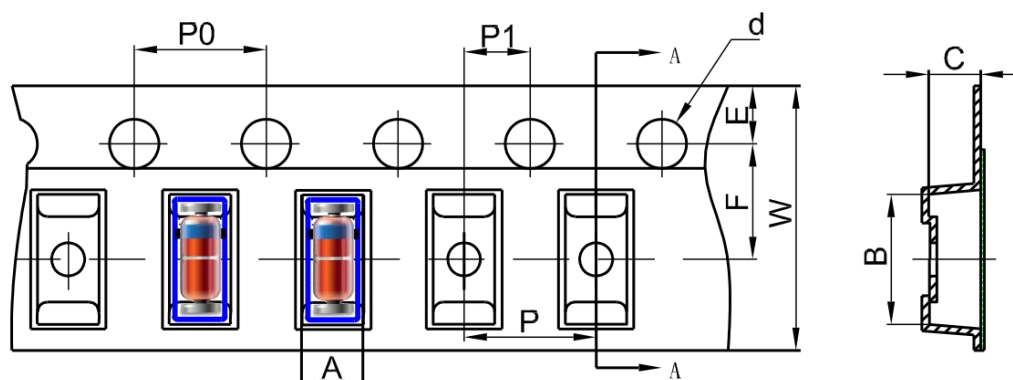


SWITCHING DIODE
LL-34 Package Outline Dimensions


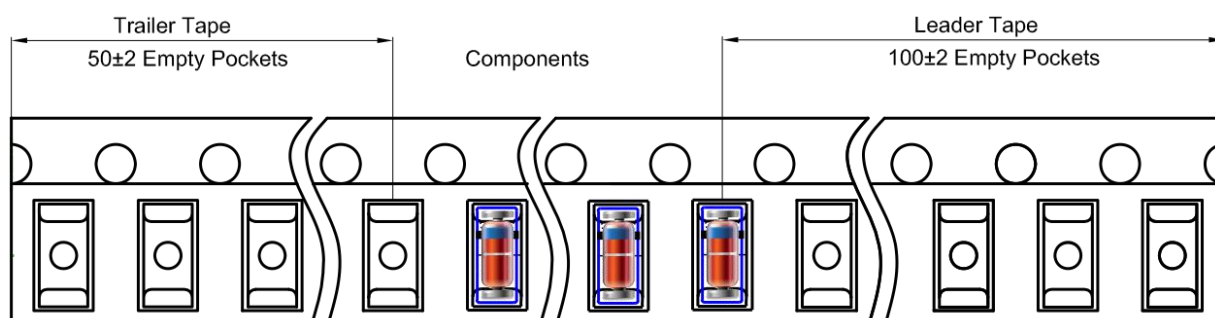
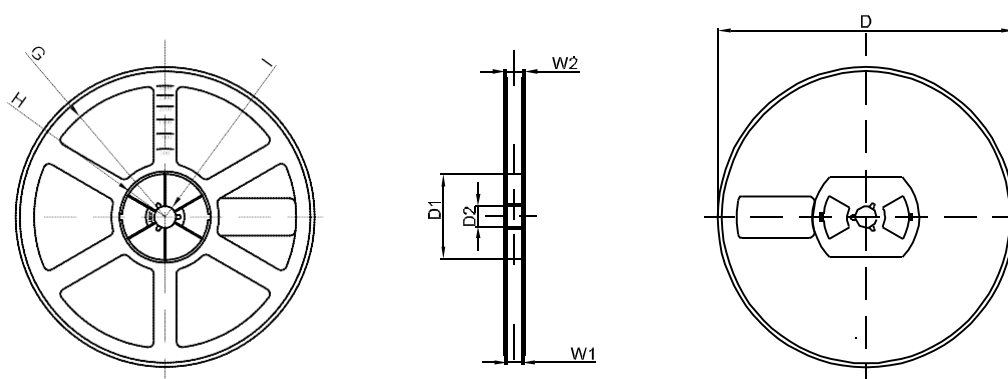
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	3.300	3.700	0.130	0.147
B	1.300	1.600	0.051	0.063
C	0.280	0.500	0.011	0.020

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

SWITCHING 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