

FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

Schottky Diode
LL34

LL34

SPECIFICATION

FrelTec Schottky Diode

621		LLBAT4_ xxx		LL34		E0Y
Type		Type		Package		Packing
621: Schottky Diode		LLBAT4_		LL34		E0Y: tape and Reel(embossed tape) for 2,5k pc (7'REEL)

All products according to RoHS (2015/863/EU)

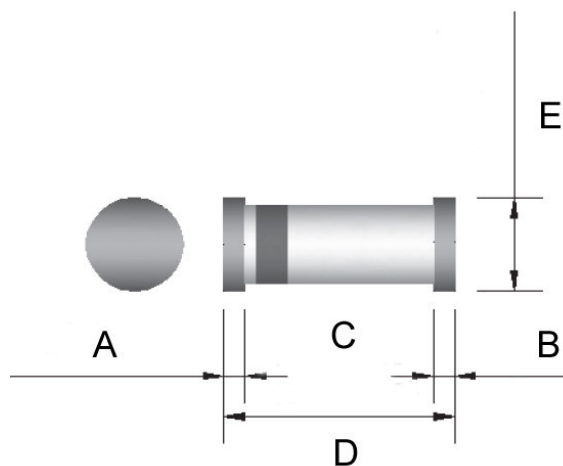
LL34

FrelTec
Schottky Diode
LLBAT4_

PACKAGE OUTLINE



DIMENSIONS



Dim	Min(mm)	Max(mm)
A	0,25	0,45
B	0,25	0,45
C	3,45	3,65
E	1,5	1,7

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Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_{STG}	Storage Temperature Range	-65 to +125	$^\circ\text{C}$
T_J	Operating Junction Temperature	+125	$^\circ\text{C}$
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
V_R	Maximum DC Blocking Voltage	30	V
$I_{F(AV)}$	Average Forward Rectified Current	200	mA
I_{FSM}	Peak Forward Surge Current	4	A

These ratings are limiting values above which the serviceability of the diode may be impaired.

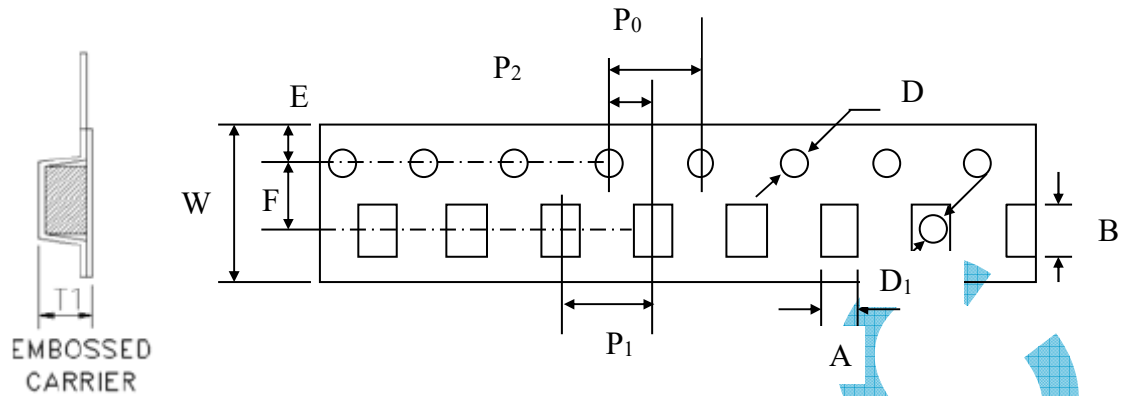
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu\text{A}$	30		Volts
I_R	Reverse Leakage Current	$V_R=25\text{V}$		500	nA
V_F	Forward Voltage	LLBAT42 $I_F=10\text{mA}$ $I_F=50\text{mA}$ LLBAT43 $I_F=2\text{mA}$ $I_F=15\text{mA}$ LLBAT42, LLBAT43 $I_F=200\text{mA}$	0,26	0,40 0,65 0,33 0,45 1.0	Volts
T_{RR}	Reverse Recovery Time	$I_F=I_R=10\text{mA}$ $R_L=100\Omega$ $I_{RR}=1\text{mA}$	5 (Typical)		nS
C	Capacitance	$V_R=1\text{V}$, $f=1\text{MHz}$	7 (Typical)		pF

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SPECIFICATION

Tape And Reel Package

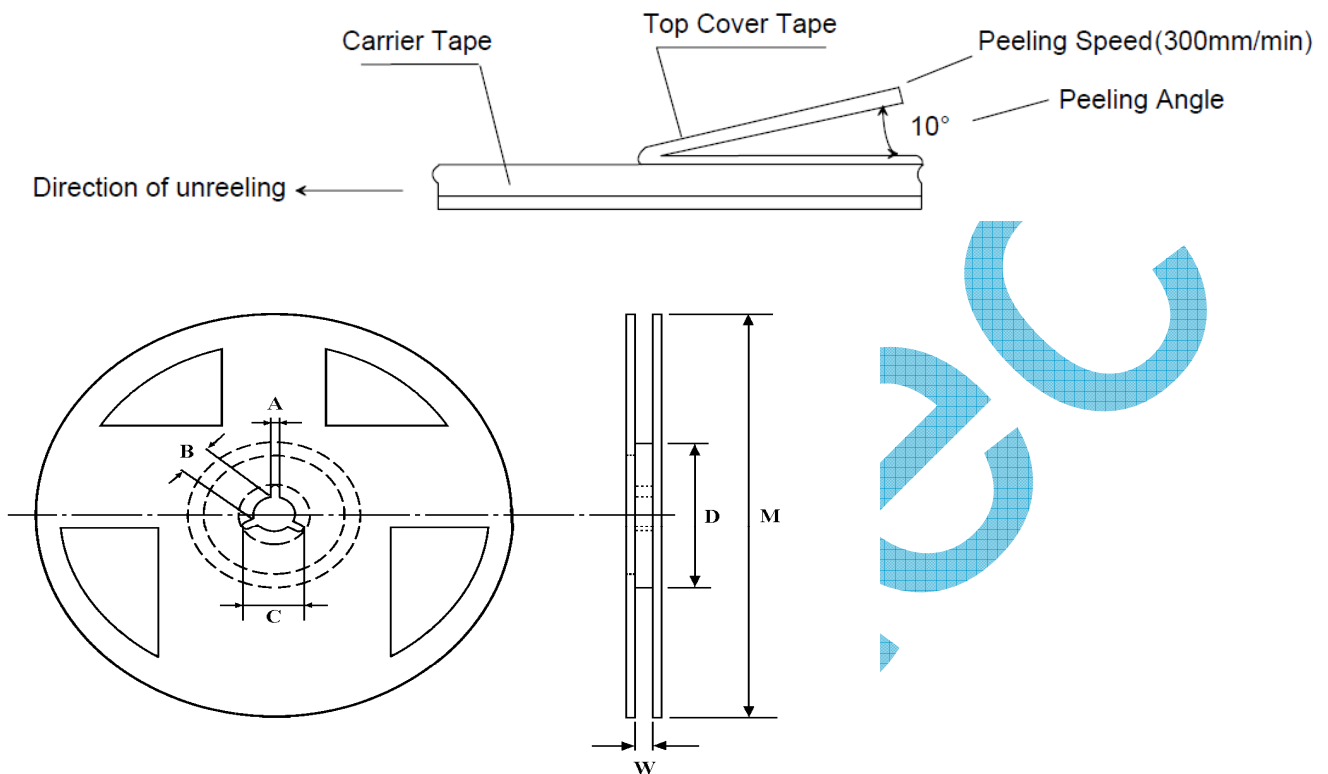


Type	A	B	W	E	F	P ₀	P ₁	P ₂	ΦD	ΦD ₁	T1
	1,83 ±0,1	3,73 ±0,1	8,00±0,10	1,75±0,1	3,5 ±0,05	4,00±0,10	4,00±0,10	2,00±0,05	1,55±0,03	1,5	2,22 ±0,05

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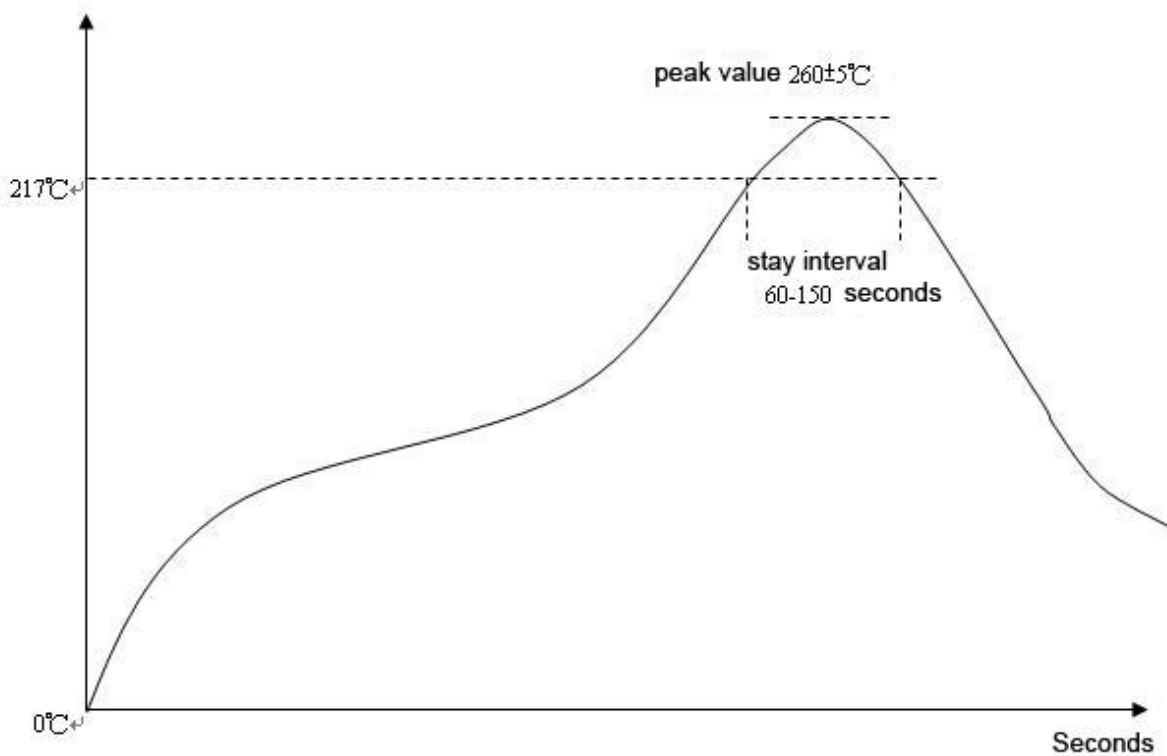
Cover Tape Peel off Strength

Specifications: peel force of top cover tape shall be between 8 to 40g
The peel speed shall be about 300mm/min±5%



Type	Packaging	M	A	B	C	D	W	T
	Embossed	178,0±1,0	2±0,5	13,5±0,7	21±0,5	60,0±1,0	13,5±1,0	15,5±1,0

Lead Free Reflow Soldering Profile



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Stock period

The performance of these products, including the solderability, is guaranteed for 12 month, provided that they remain packed as they were when delivered and stored at a temperature of $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and a relative humidity less than 80%RH

3/4/2020

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Please read cautions and warnings and important notes at the end of this document.

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