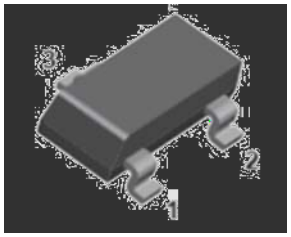


- Stand-off voltage: ± 5V Max
- Transient protection for each line according to
  IEC61000-4-2(ESD): ±8kV (contact)
  IEC61000-4-5(surge): 2A (8/20μs)
- Low leakage current:
- Ultra low clamping voltage
- RoHS Compliant



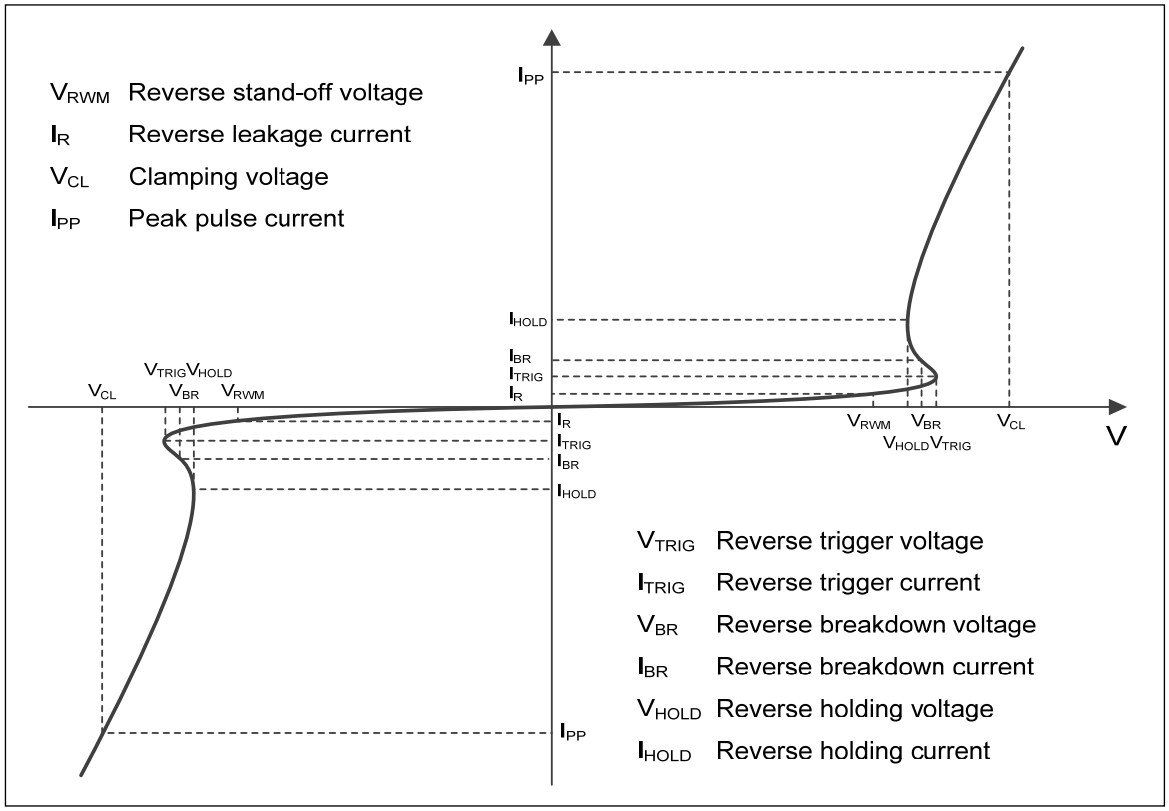
- Cellular Handsets and Accessories
- Notebooks and Handhelds
- Personal Digital Assistants
- Portable Instrumentation
- Digital Cameras
- Peripherals
- Audio Players, Keypads, Side Keys, LCD
- USB 2.0

SOT-23

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: “Green” Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020
- Marking Information

-2





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Peak pulse power (t_p = 8/20μs)	P_{pk}	28	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	2	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±15	KV
ESD according to IEC61000-4-2 contact discharge		±8	
Junction temperature	T_J	-55~125	°C
Storage temperature	T_{STG}	-55~150	°C

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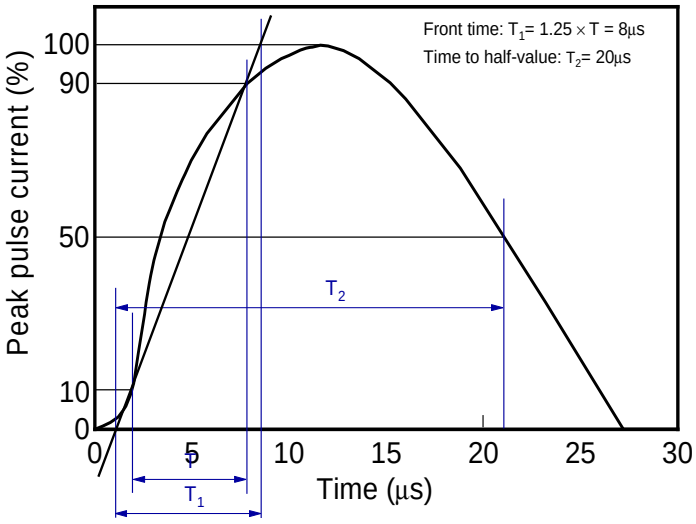
Reverse maximum working voltage	V_{RWM}	V				± 5
Reverse leakage current	I_R	μA	V_{RWM} = 5V Pin1/Pin2 to Pin3			0.5
Reverse breakdown voltage	V_{BR}	V	I_T = 1mA Pin1/Pin2 to Pin3	5.5		9.5
Clamping voltage [1)]	V_{CL}	V	I_{PP} = 1A, t_p = 8/20μs Pin1/Pin2 to Pin3			11
		V	I_{PP} = 2A, t_p = 8/20μs Pin1/Pin2 to Pin3			14
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz Pin1/Pin2 to Pin3		3	5

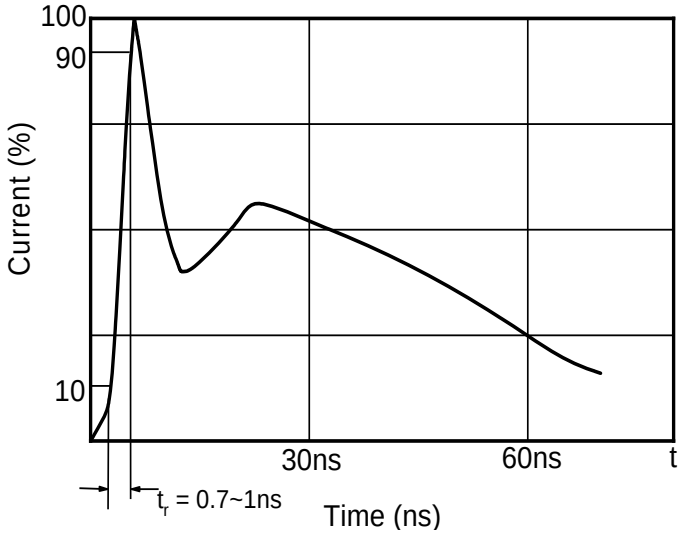
Notes:
(1). Non-repetitive current pulse, according to IEC61000-4-5.

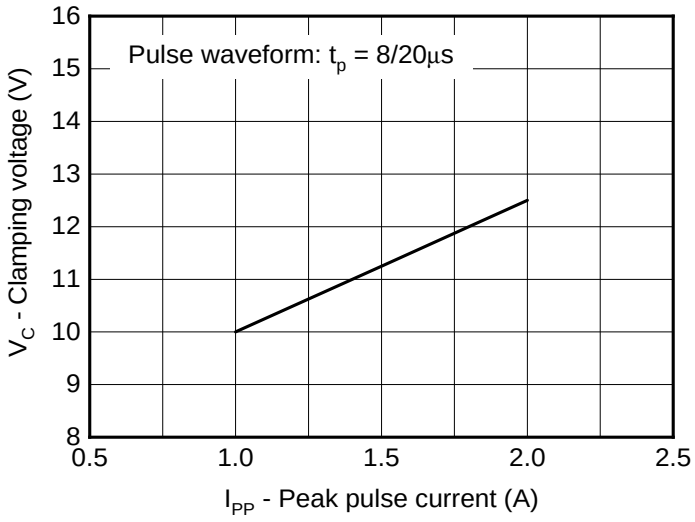
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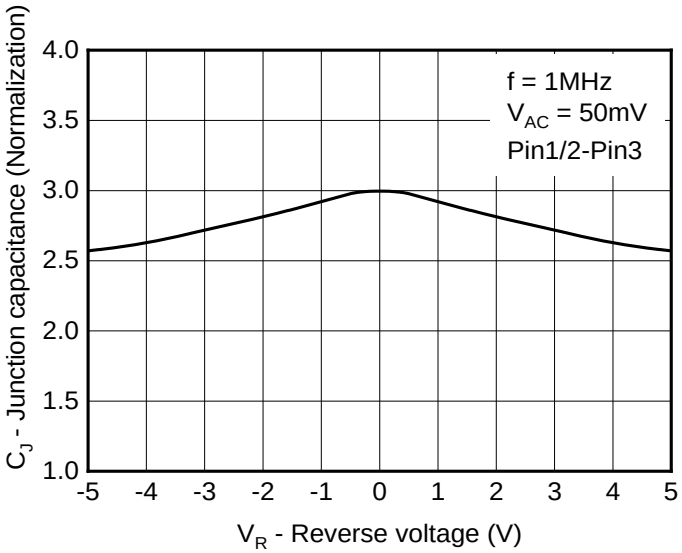
ESDLC0502EB	F2	Approximate 8	3000	30000	120000	7” reel

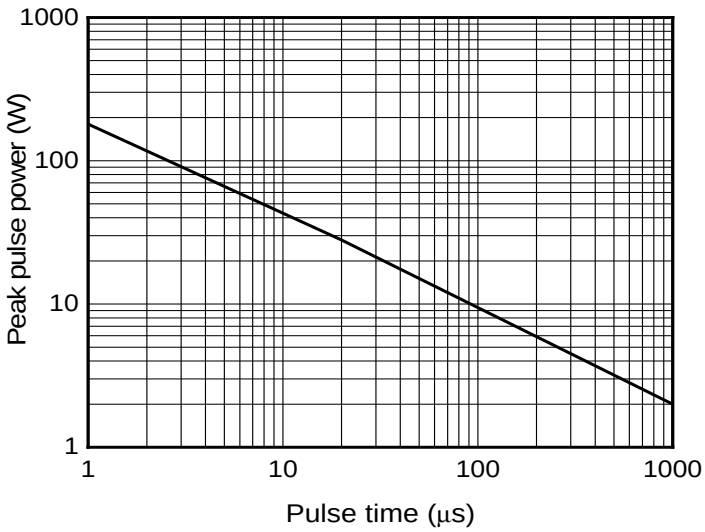
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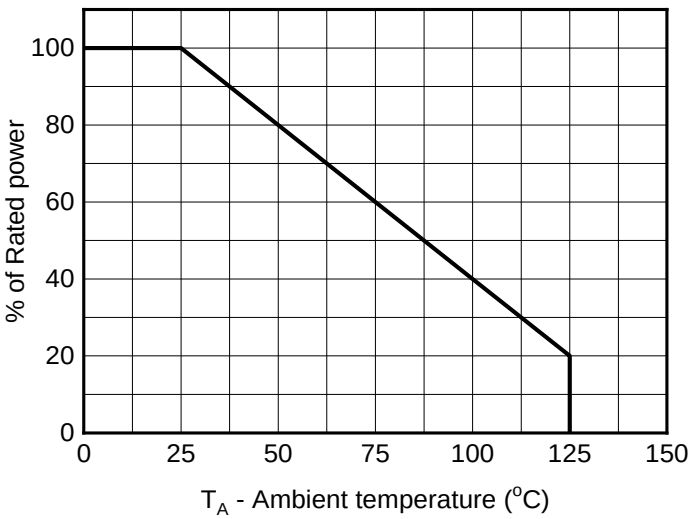

Front time: T_1= 1.25 × T = 8μs
Time to half-value: T_2= 20μs
Peak pulse current (%)
100
90
50
10
0
0
5
10
15
20
25
30
Time (μs)
T_2
T
T_1


Current (%)
100
90
10
30ns
60ns
t
t_r = 0.7~1ns
Time (ns)

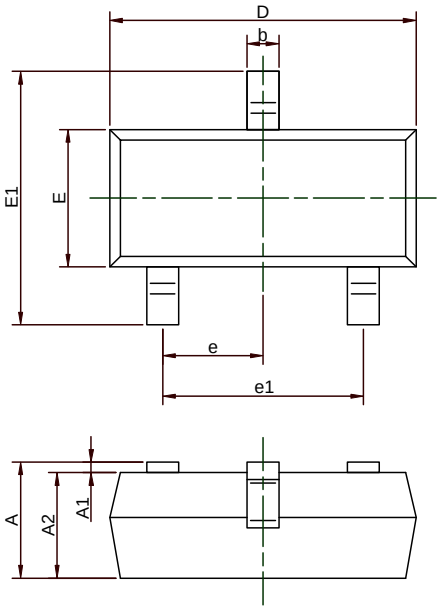

Pulse waveform: t_p = 8/20μs
V_C - Clamping voltage (V)
16
15
14
13
12
11
10
9
8
0.5
1.0
1.5
2.0
2.5
I_{PP} - Peak pulse current (A)

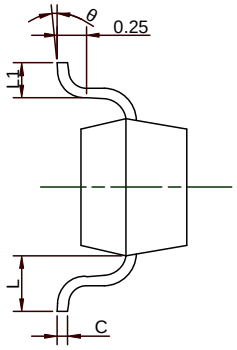

f = 1MHz
V_{AC} = 50mV
Pin1/2-Pin3
C_J - Junction capacitance (Normalization)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
-5
-4
-3
-2
-1
0
1
2
3
4
5
V_R - Reverse voltage (V)


Peak pulse power (W)
1000
100
10
1
1
10
100
1000
Pulse time (μs)

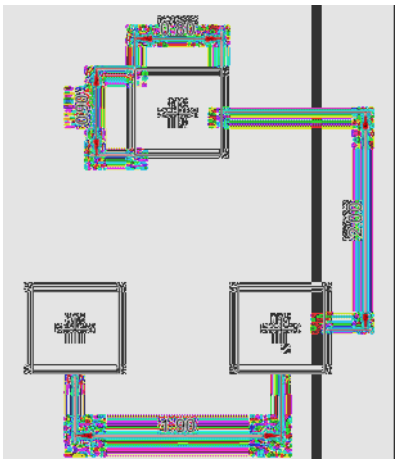

% of Rated power
100
80
60
40
20
0
0
25
50
75
100
125
150
T_A - Ambient temperature (°C)

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Symbol	Dimensions in millimeters		
	Min.	Typ.	Max.



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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment n lec ، ﻗ m ✕ dad ñ ' ñ l 11 ı lec ˆ e ! t ⊾ e 3 n $ m N