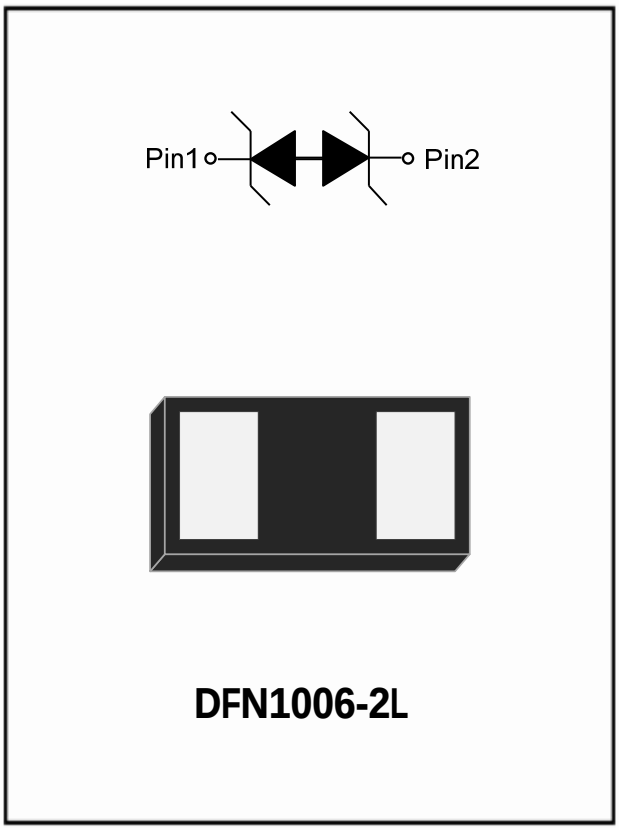
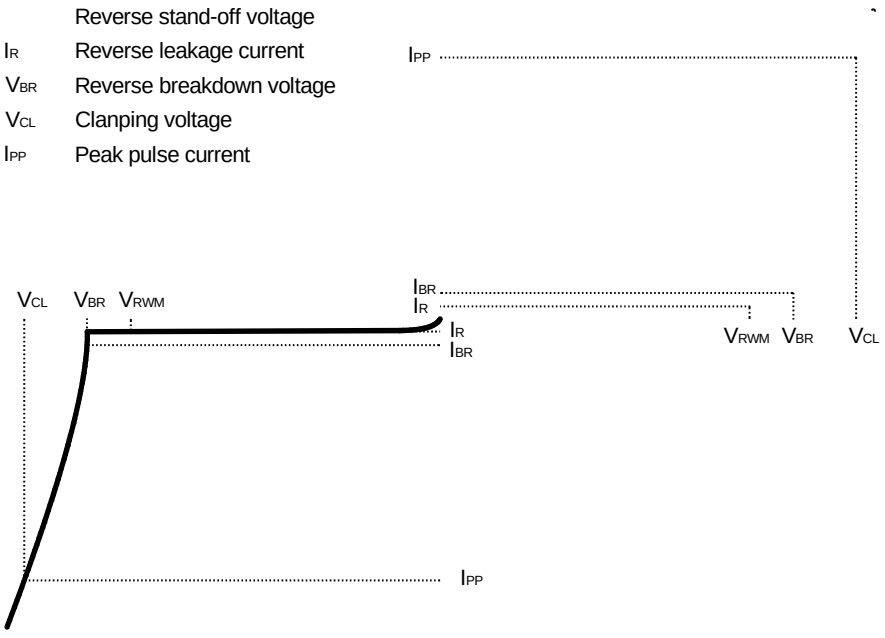


- Stand-off voltage: 5V Max
- Transient protection for each line according to
  IEC61000-4-2(ESD): ±20kV (contact)
  IEC61000-4-5(surge): 3.5A (8/20μs)
- Ultra-low leakage current
- Ultra low clamping voltage
- Low clamping voltage:

V_{CL} = 20V typ. @ IPP = 16A (TLP)



	Reverse stand-off voltage
I_R	Reverse leakage current
V_{BR}	Reverse breakdown voltage
V_{CL}	Clanping voltage
I_{PP}	Peak pulse current



■

Peak pulse power (t_p = 8/20μs)	P_{pk}	56	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	3.5	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±20	kV
ESD according to IEC61000-4-2 contact discharge		±20	
Junction temperature	T_J	125	°C
Storage temperature	T_{STG}	-55~150	°C

■ T_a=25 Unless otherwise specified

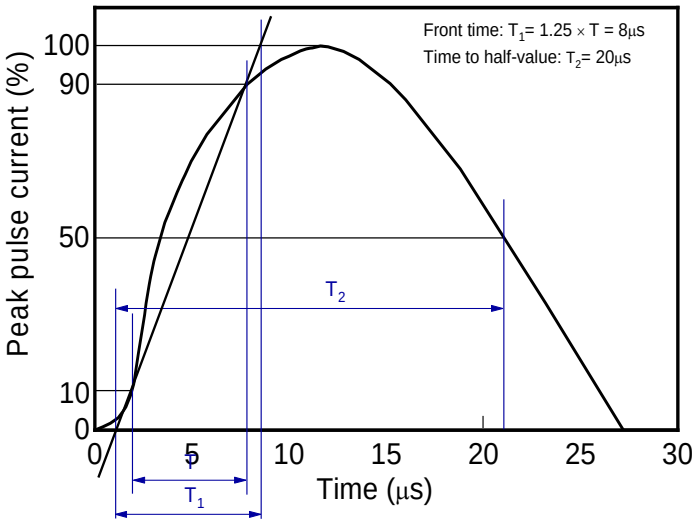
Reverse maximum working voltage	V_{RWM}	V				5
Reverse leakage current	I_R	nA	V_{RWM} = 5V			50
Reverse breakdown voltage	V_{BR}	V	I_{BR} = 1mA	7	8	9
Clamping voltage *1)*	V_{CL}	V	I_{PP} = 16A, t_p = 100ns		20	
Dynamic resistance *1)*	R_{DYN}	Ω			0.6	
Clamping voltage *2)*	V_{CL}	V	V_{ESD} = 8kV		20	
Clamping voltage *3)*	V_{CL}	V	I_{PP} = 1A, t_p = 8/20μs		10.5	12
		V	I_{PP} = 3.5A, t_p = 8/20μs		14.5	16
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz		0.3	0.5

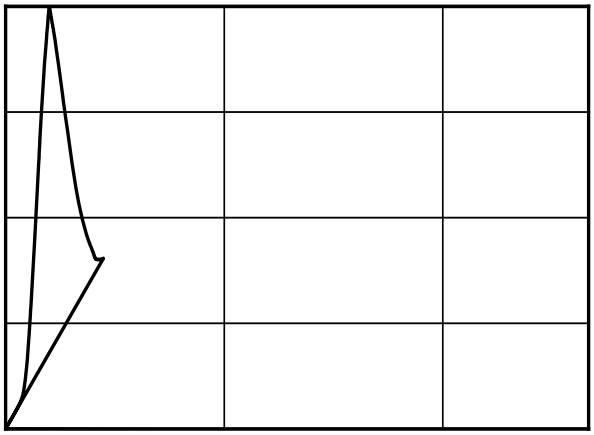
Notes:
(1). TLP parameter: Z_0 = 50Ω, t_p = 100ns, t_r = 2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.
(2). Contact discharge mode, according to IEC61000-4-2.
(3). Non-repetitive current pulse, according to IEC61000-4-5.

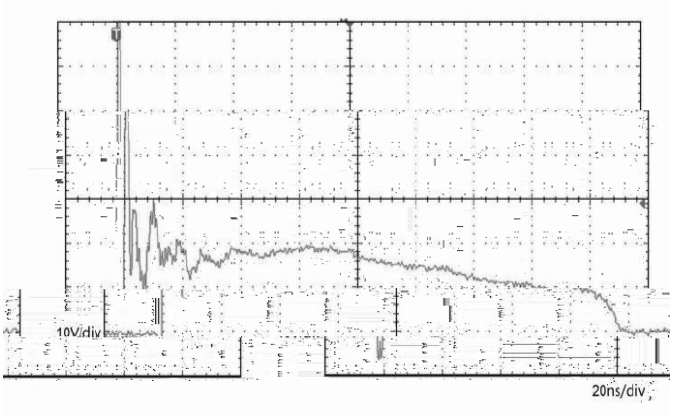
■ (Example)

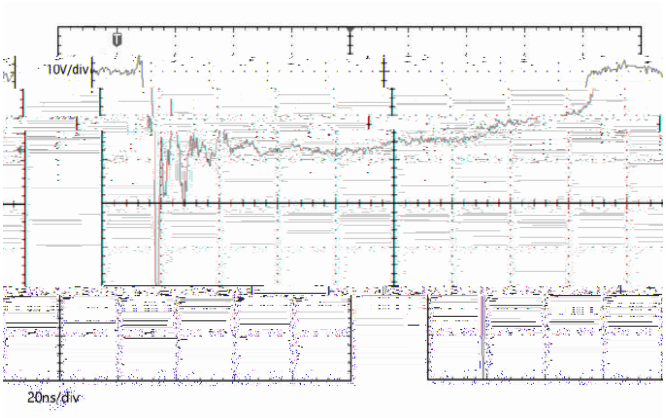
ESDSLC5V0LBS1	F1	Approximate 0.9	10000	100000	400000	7” reel

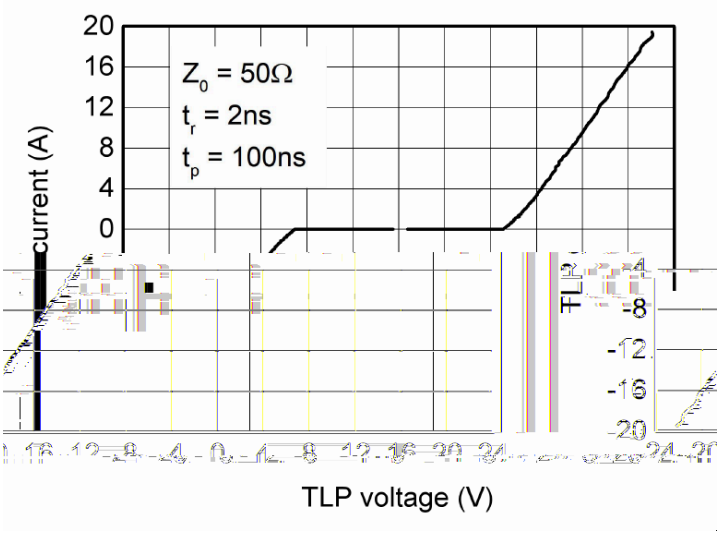
■ (Typical)


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_1

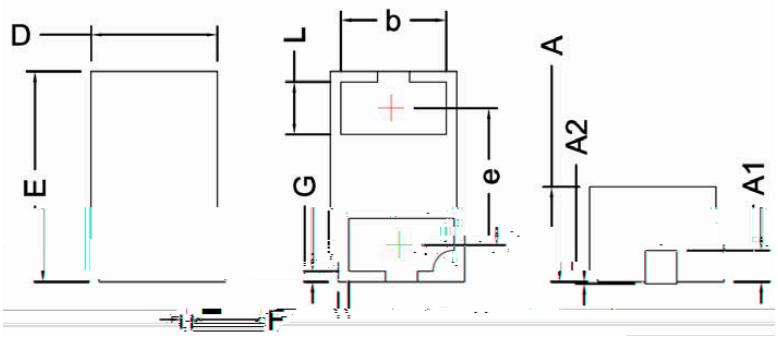




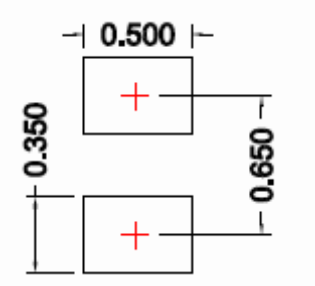




■



	0.50	0.60	0.70
	0.90	1.00	1.10
	0.35	0.45	0.55
	0.15 BSC		
			0.10
	0.005		
	0.005		
	0.15	0.25	0.35
	0.41	0.50	0.59
	0.65 BSC		



Notes:
This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met

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