

/ Revised record

A	2020.09.15	ALL	LX LS3202V7-1N		
A	2021-6-28	ALL	DFN1006A-2L DFN1006-2L		

DFN1006-2L

ESD

DFN1006-2L Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

Stand-off voltage: $\pm 7V$ Max.

Transient protection for each line according to

IEC61000-4-2(ESD): $\pm 30kV$ (contact)

IEC61000-4-4 (EFT): 40A (5/50ns)

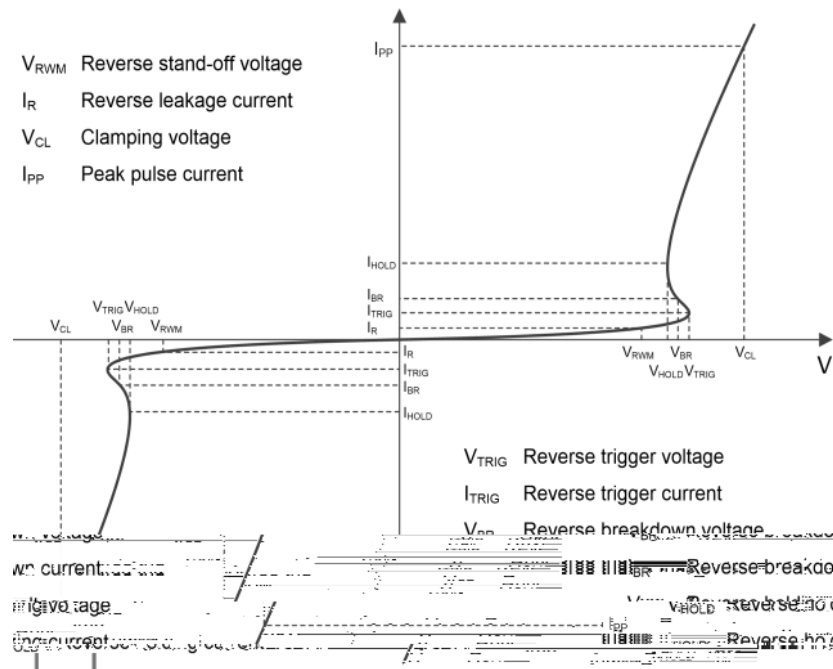
IEC61000-4-5(surge): 6A (8/20 μs)Ultra-low capacitance: $C_j = 10pF$ typ.

Low leakage current:

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Peak Pulsed Power (t _p = 8/20μs)	P _{PK}	78 μ	W

840

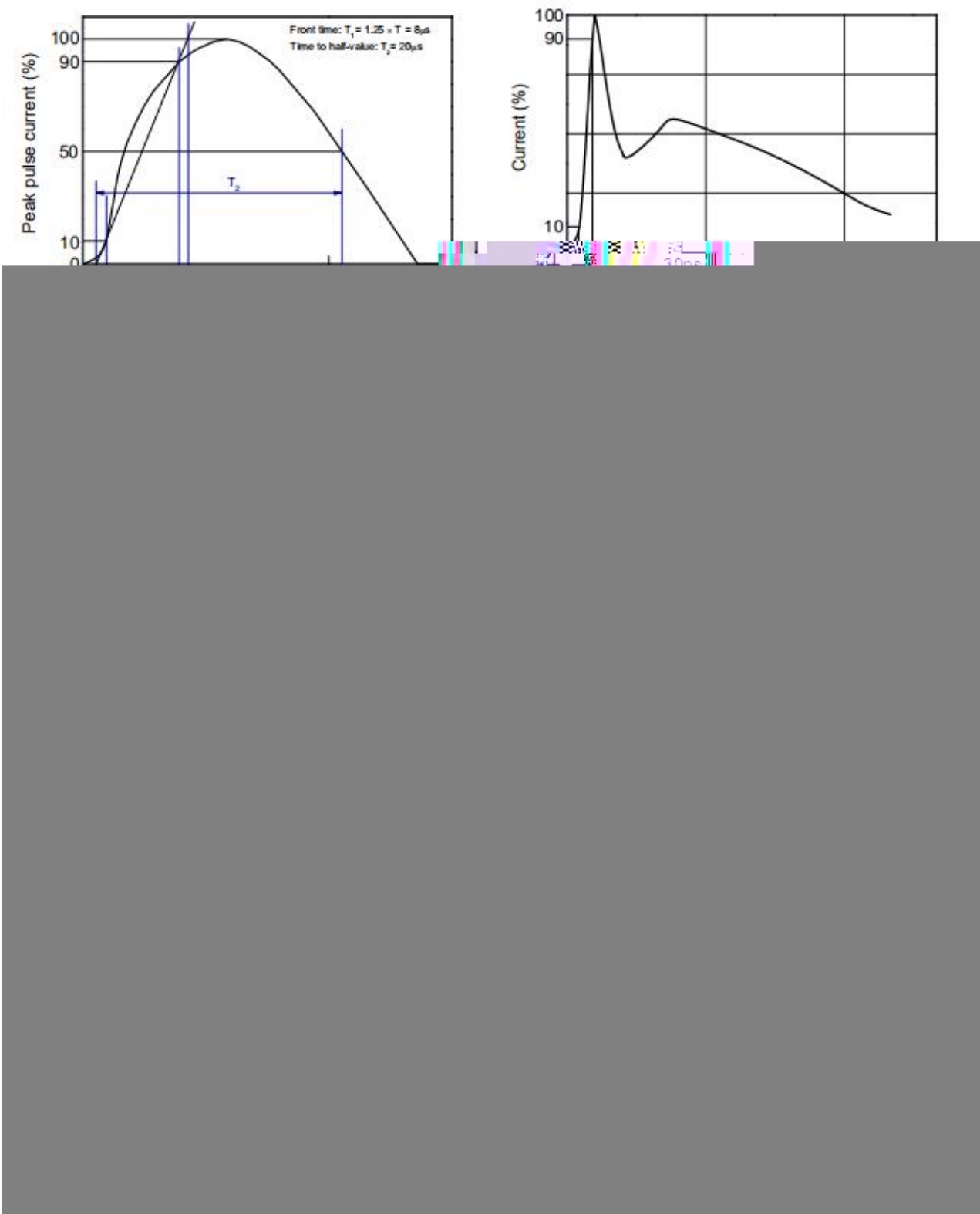
/ Electrical Characteristics(Ta=25)



Definitions of electrical characteristics

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				± 7	V
Reverse leakage current	I_R	$V_{RWM} = 7V$			100	nA
Reverse breakdown voltage	V_{BR}	$I_{BR} = 1mA$	7.2		10.5	V
Reverse holding voltage	V_{HOLD}	$I_{HOLD} = 50mA$	7.2		10.5	V
Clamping voltage ¹⁾	V_{CL}	$I_{PP} = 16A \quad t_p = 100ns$		12.0		V
Dynamic resistance ¹⁾	R_{DYN}			0.27		Ω
Clamping voltage ²⁾	V_{CL}	$V_{ESD} = 8kV$		12.0		V
Clamping voltage ³⁾	V_{CL}	$I_{PP} = 1A \quad t_p = 8/20\mu s$		8	10	V
		$I_{PP} = 6A \quad t_p = 8/20\mu s$		11	13	V
Junction Capacitance	C_J	$V_R = 0V \quad f = 1MHz$		10	13	pF
	C_J	$V_R = 7V \quad f = 1MHz$		8	11	pF

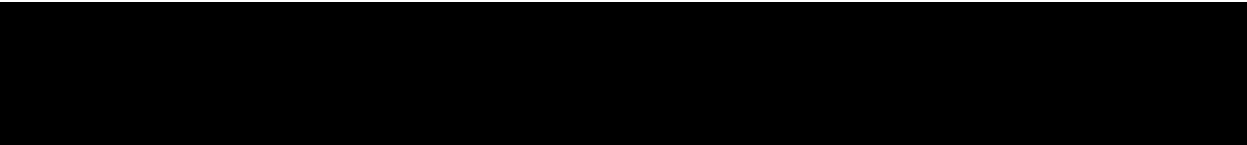
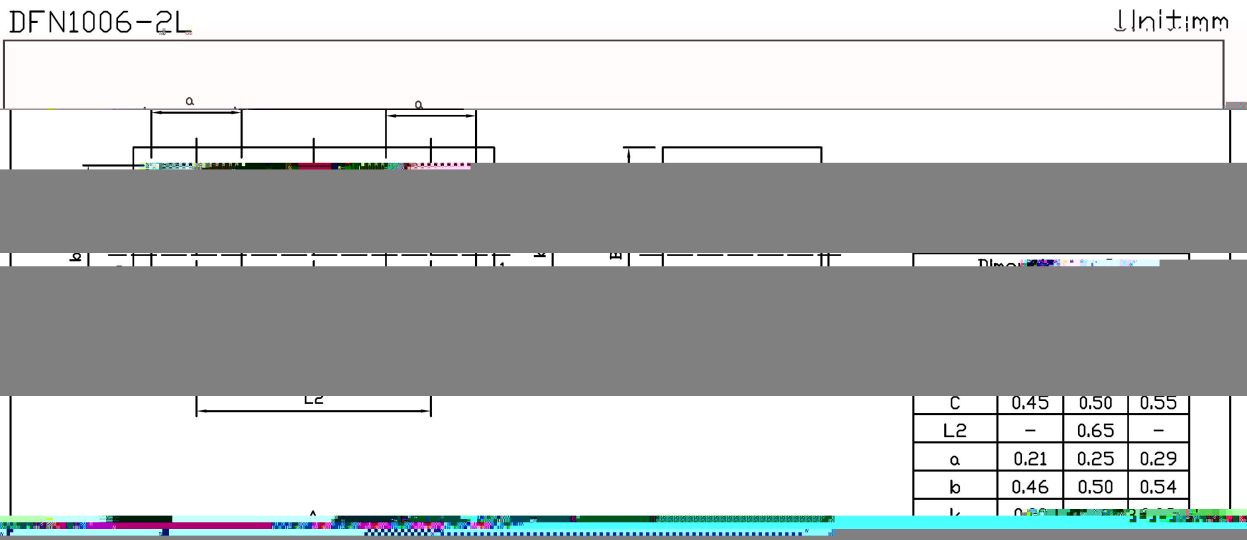
/ Electrical Characteristic Curve(Ta=25)



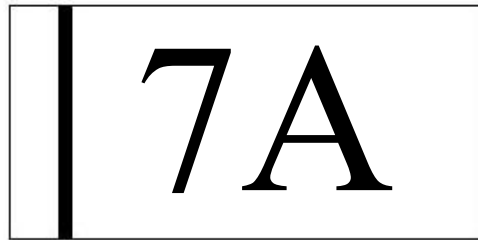
/ Electrical Characteristic Curve(Ta=25)



/ Package Dimensions



/ Marking Instructions

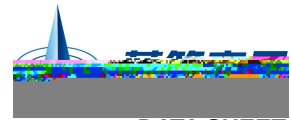


说明：

7A： 为型号代码

Note：

7A： Product Type.



() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- | | | | |
|---|-------------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5°C | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

VOE	260±5°C	10±1 sec.	Temp.:260±5°C	Time:10±1 sec
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