Parameter	Symbol	Rating	Unit
Peak pulse power (t_p = 8/20μs)	P_K	420	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	7	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	125	Ņ
Storage temperature	T_{STG}	-55~+150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				¤ 36	V
Reverse leakage current	I_R	V_{RWM} = ¤ 36V			100	nA
Reverse breakdown voltage[1)]	V_{BR}	I_T = 1mA	36			V
Clamping voltage [2)]	V_C	I_{PP} = 1A t_p = 8/20μs		46	48	V
		I_{PP} = 7A t_p = 8/20μs		75	77	V
		V_{ESD}=8KV [3)]		65		V
Junction capacitance	C_J	V_R = 0V f = 1MHz		15	20	pF
Clamping voltage[4)]	V_{CL}	IPP = 16A tp = 100ns		60		V
Dynamic resistance[4)]	R_{DYN}			0.22		Ω

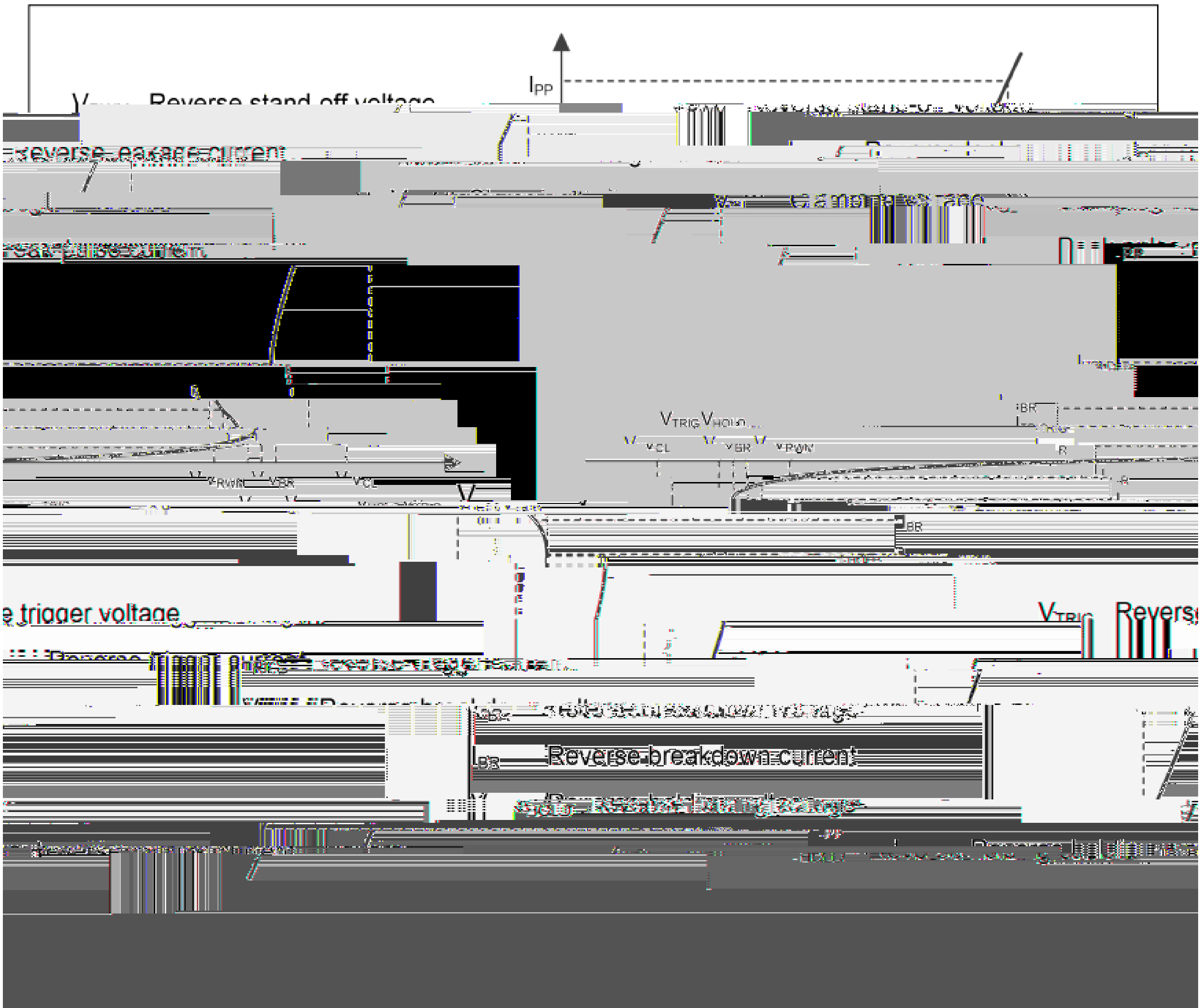
Notes:

1) V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 .

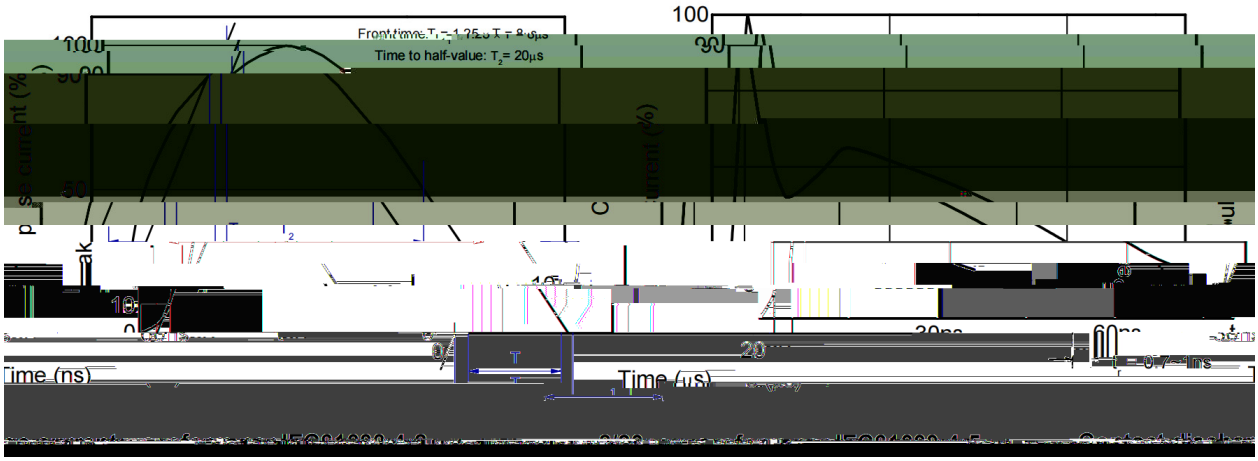
2) Non-repetitive current pulse, according to IEC61000-4-5.

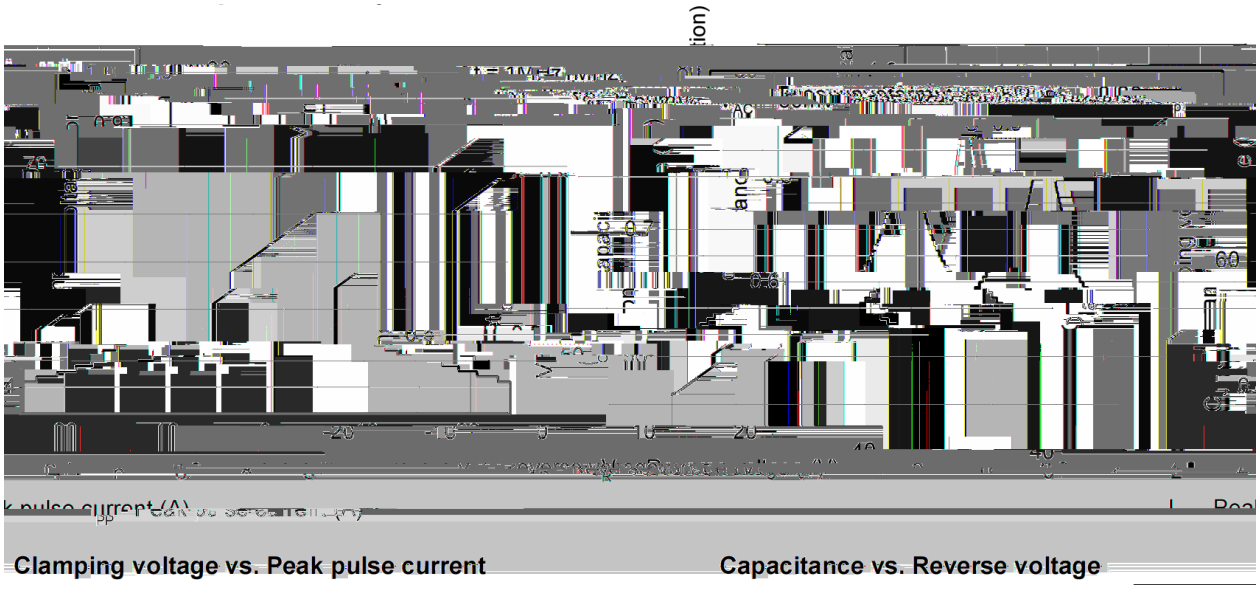
3) Contact discharge mode, according to IEC61000-4-2.

4)TLP parameter: Z0 = 50Ω, tp = 100ns, tr = 2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.



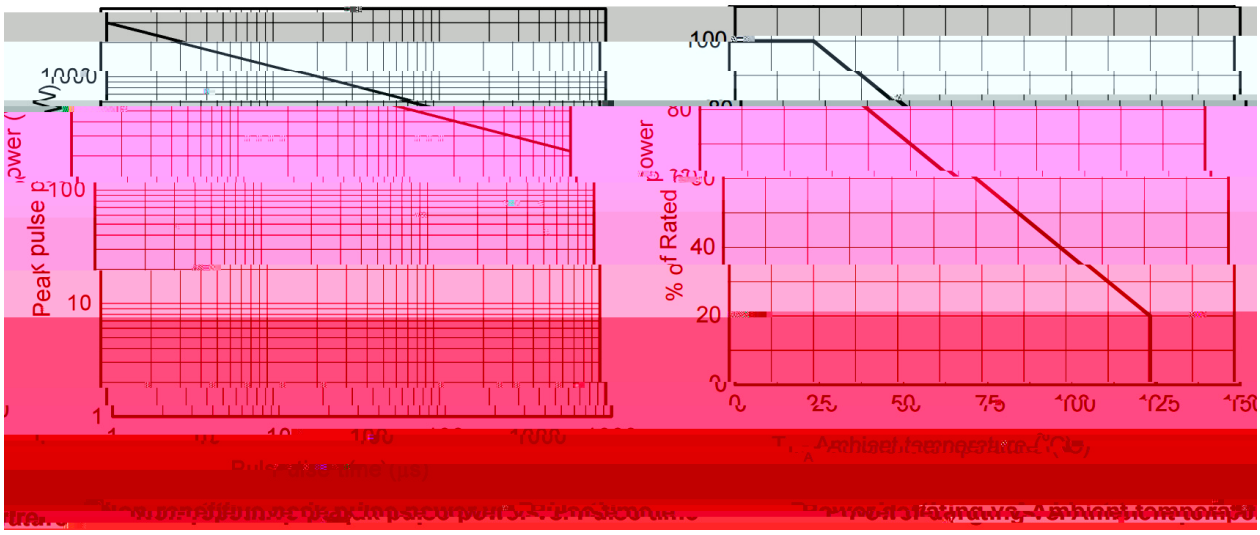
Definitions of electrical characteristics

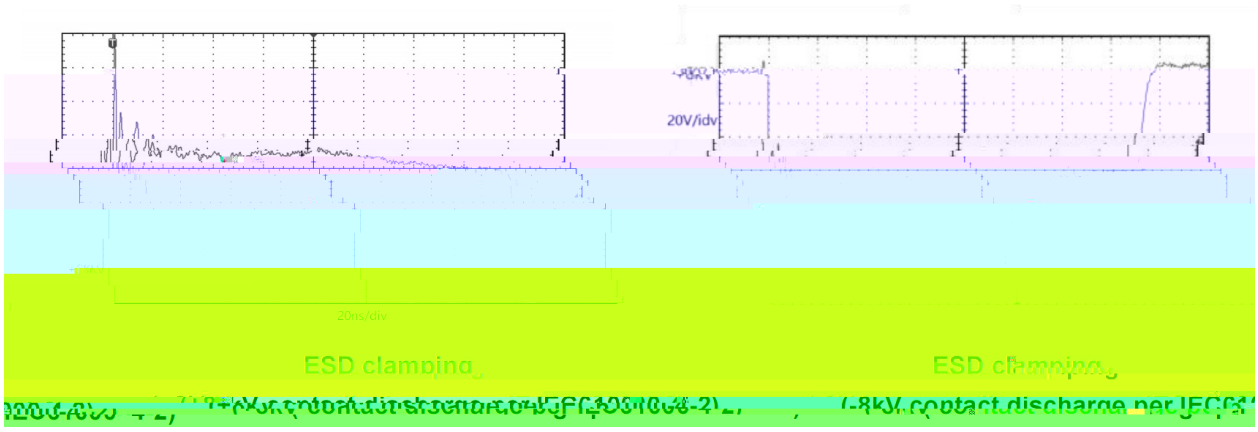


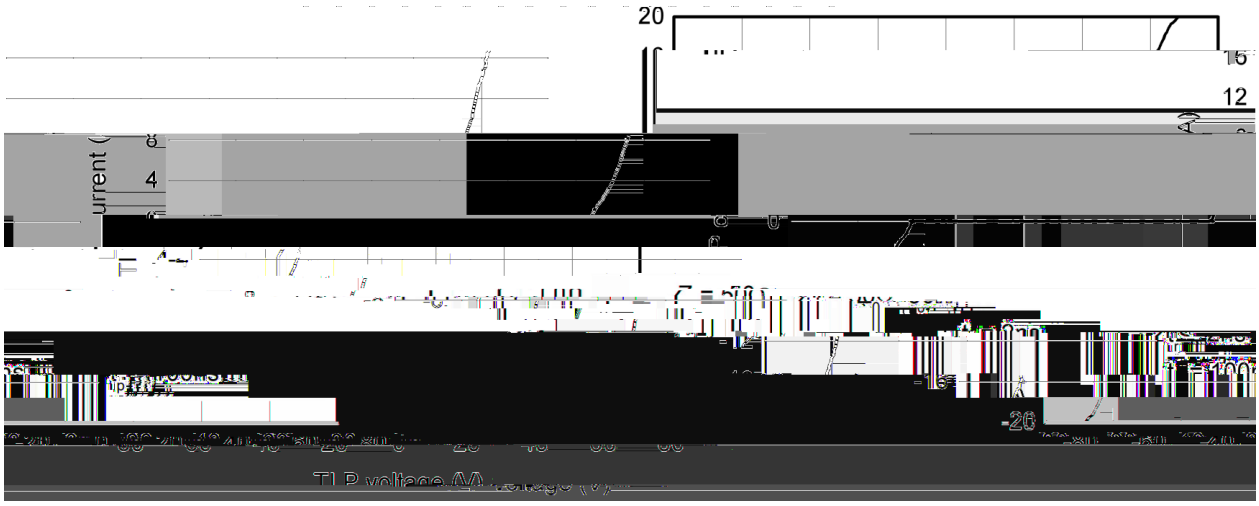


Clamping voltage vs. Peak pulse current

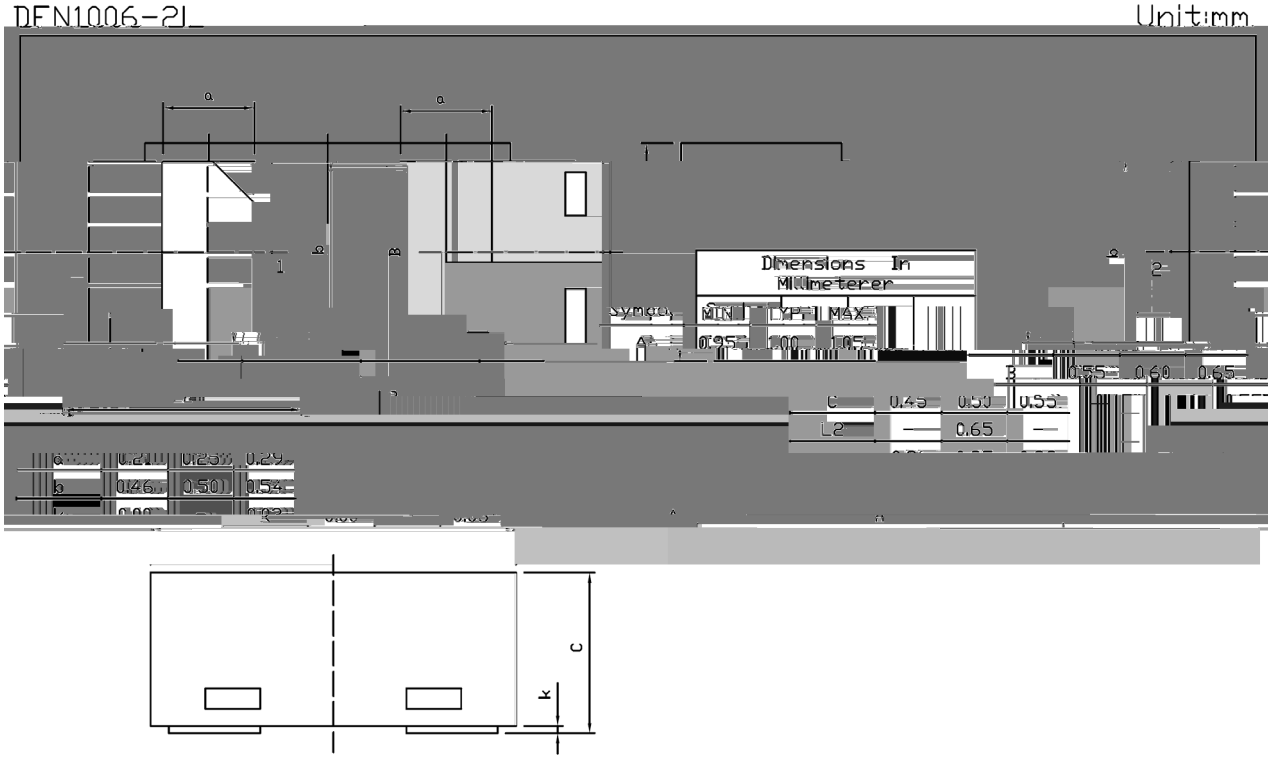
Capacitance vs. Reverse voltage




20V/div
20ns/div
ESD clamping
ESD clamping


20
15
12
4

DFN1006-2L Unit:mm



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Temperature Profile for IR Reflow Soldering(Pb-Free)

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

260 5	10 1 sec.	Temp.:260±5	Time:10±1 sec

/ REEL

Package Type	Units	Dimension	(unit mm³)