DFN0603 ESD

DFN0603 Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

Stand-off voltage: ±5V Max.

Transient protection for each line according to:

IEC61000-4-2(ESD): ±30kV (contact).

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

IEC61000-4-5(surge): 8A (8/20μs).

Ultra-low capacitance: CJ = 10pF typ.

Low leakage current.

Low clamping voltage: VCL =10.0V typ. @ IPP = 16A (TLP).

Solid-state silicon technology.

HF Product.

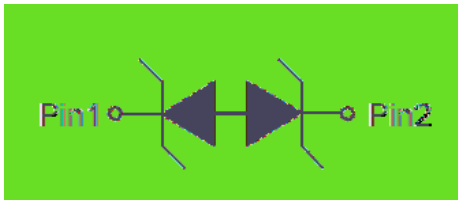
Cellular handsets.

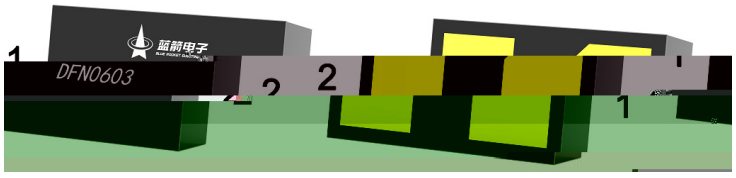
Tablets.

Laptops.

Other portable devices.

Network communication devices.

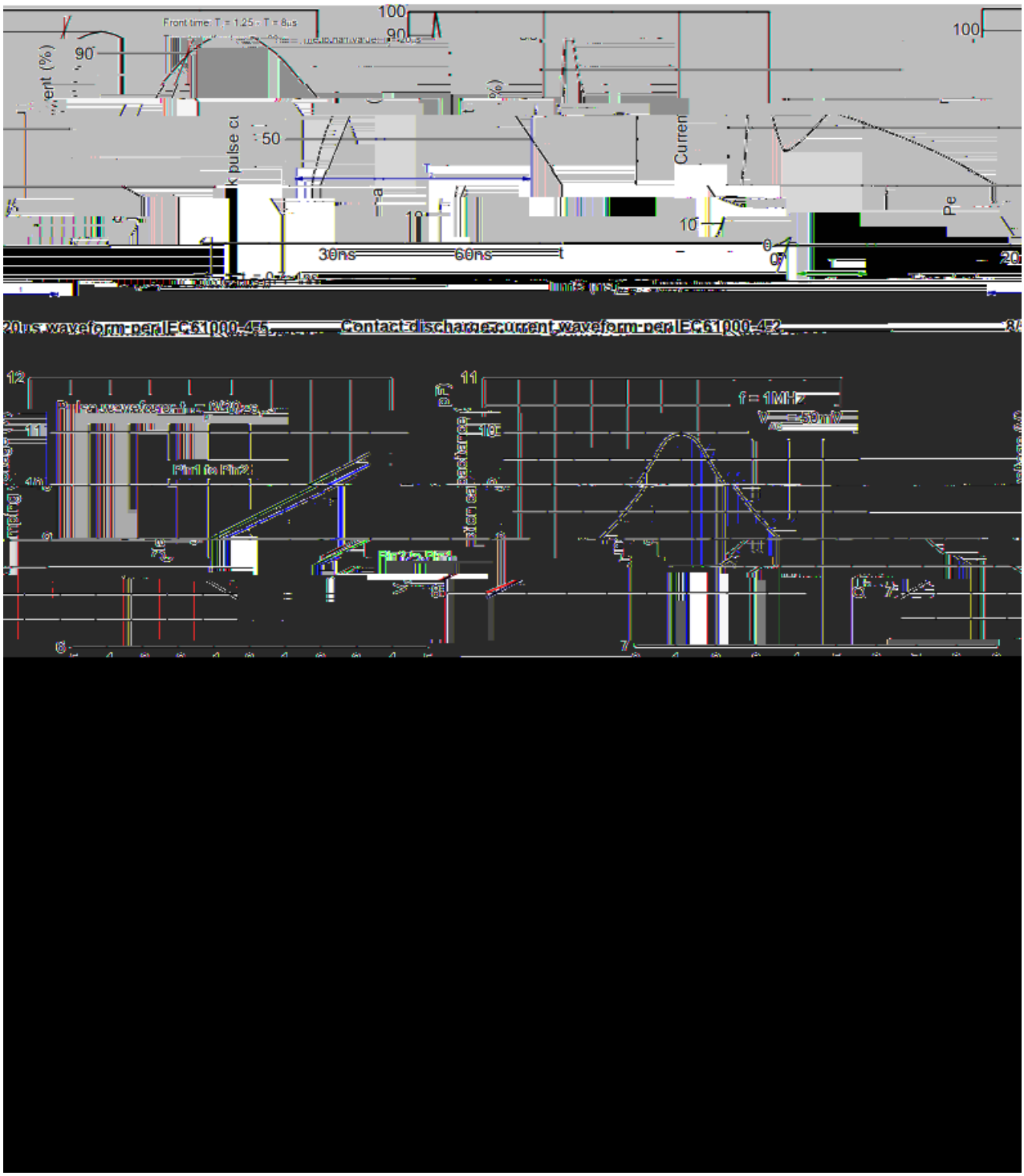


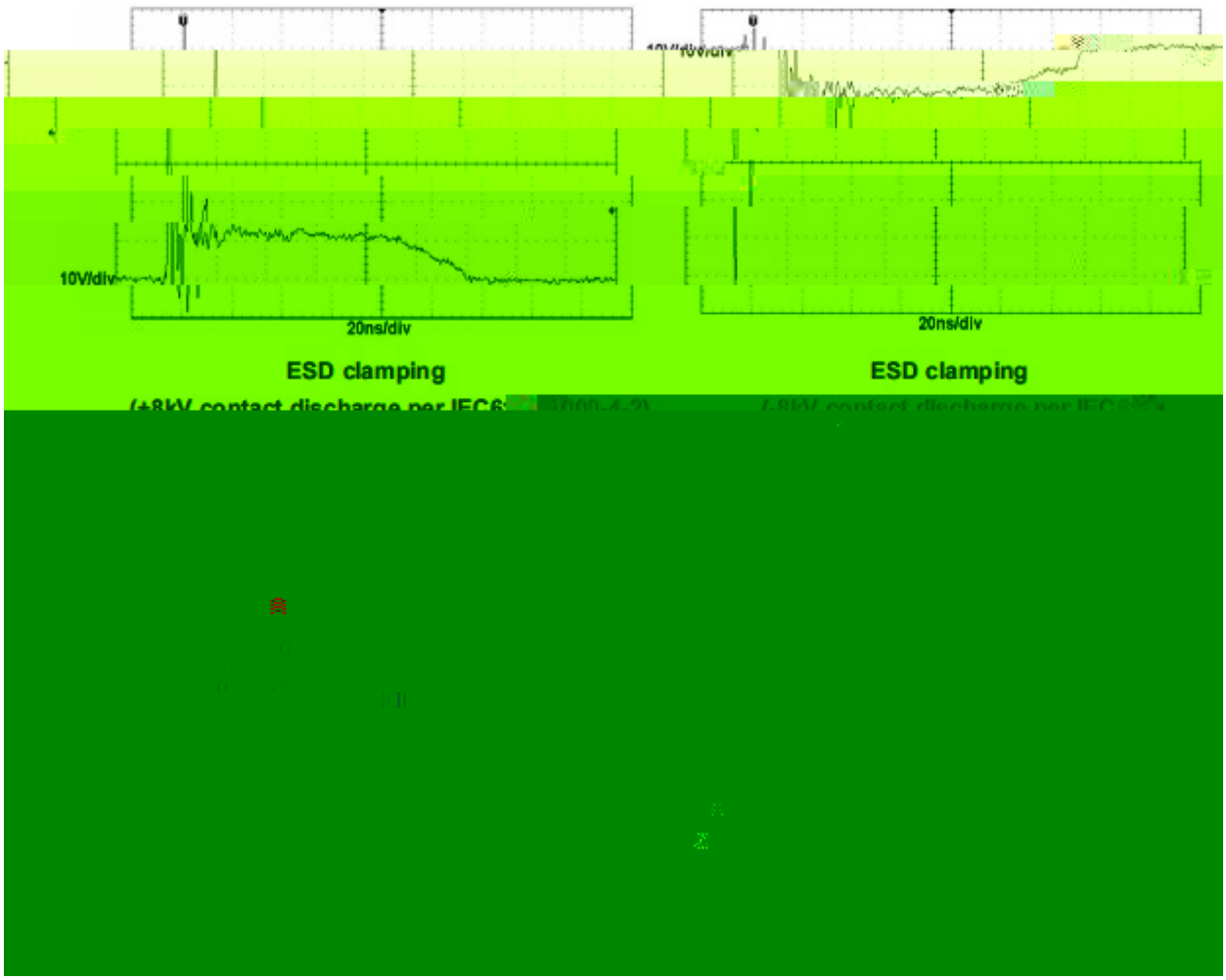


See Marking Instructions.

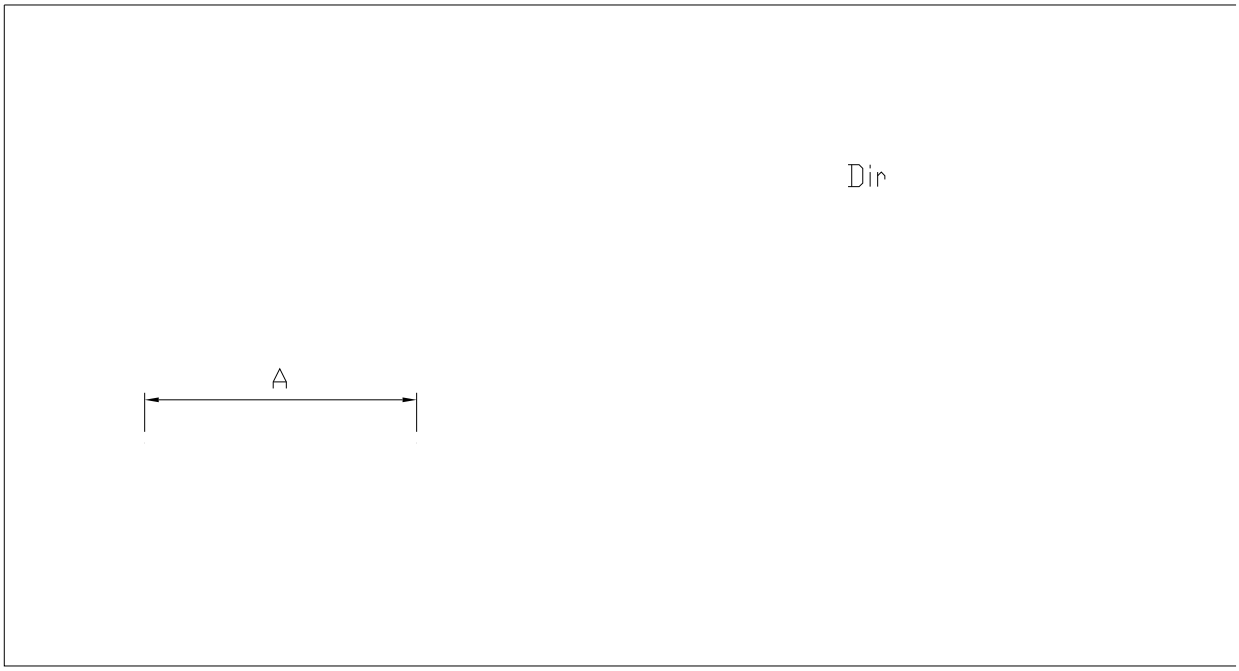
Parameter	Symbol	Rating	Unit
Peak Pulse Power(t_p = 8/20μs)	P_{PK}	35	W
Peak Pulse Current(t_p = 8/20μs)	IPP	8	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	125	
Operating temperature	T_{OP}	-40~85	
Lead temperature	T_L	260	
Storage Temperature	T_{STG}	-55~+150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit


Front time: Tr = 1.25 x T = 8μs
100
90
50
10
0
30ns
60ns
t
20ns waveform per IEC61000-4-5
Contact discharge current waveform per IEC61000-4-2
f = 1MHz
Vac = 50mV


10V/div
20ns/div
ESD clamping
20ns/div
ESD clamping

DFN0603 Unit:mm



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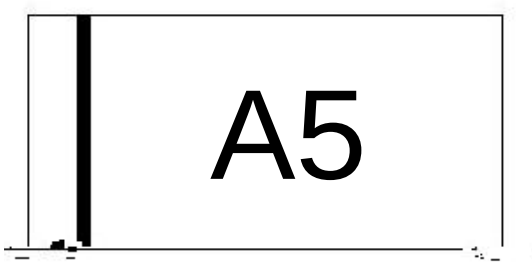

A5

Note

A5	Product Type Code

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.