

/ Descriptions

DFN0603

ESD

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

/ FeaturesStand-off voltage: $\pm 5V$ 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): 8A (8/20 μs).Ultra-low capacitance: $C_J = 10pF$ typ.

Low leakage current.

Low clamping voltage: $V_{CL} = 10.0V$ typ. @ $I_{PP} = 16A$ (TLP).

Solid-state silicon technology.

HF Product.

/ Applications

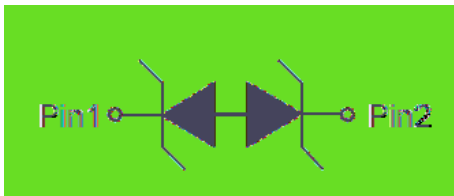
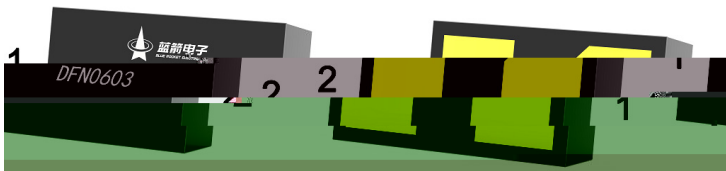
Cellular handsets.

Tablets.

Laptops.

Other portable devices.

Network communication devices.

/ Equivalent Circuit**/ Pinning****/ Marking**

See Marking Instructions.



/ Absolute Maximum Ratings

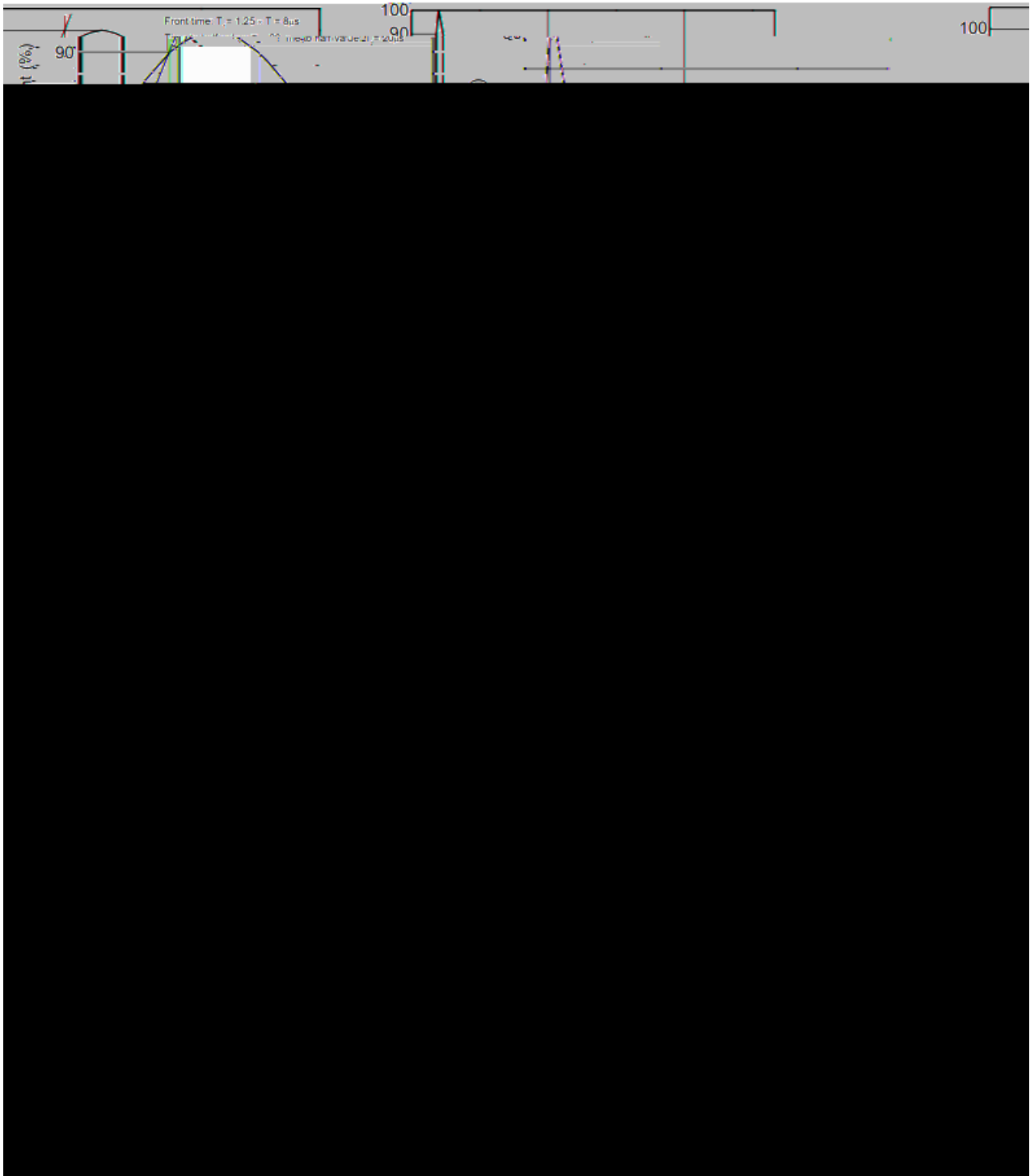
Parameter	Symbol	Rating	Unit
Peak Pulse Power($t_p = 8/20\mu s$)	P_{PK}	35	W
Peak Pulse Current($t_p = 8/20\mu s$)	I_{PP}	8	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	
Junction temperature	T_J	125	
Operating temperature	T_{OP}	-40~85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

Definitions of electrical characteristics

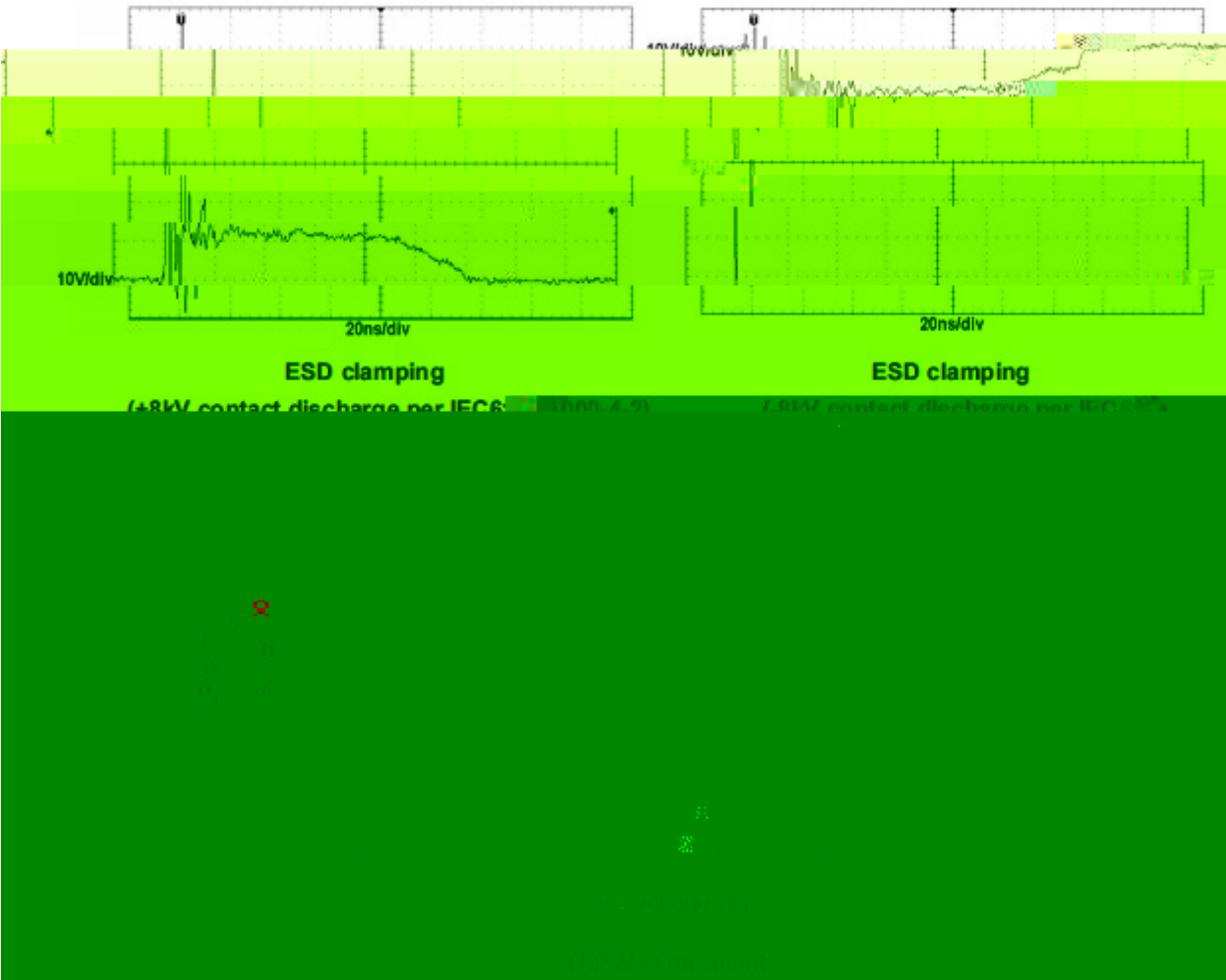
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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/ Electrical Characteristic Curve(Ta=25)

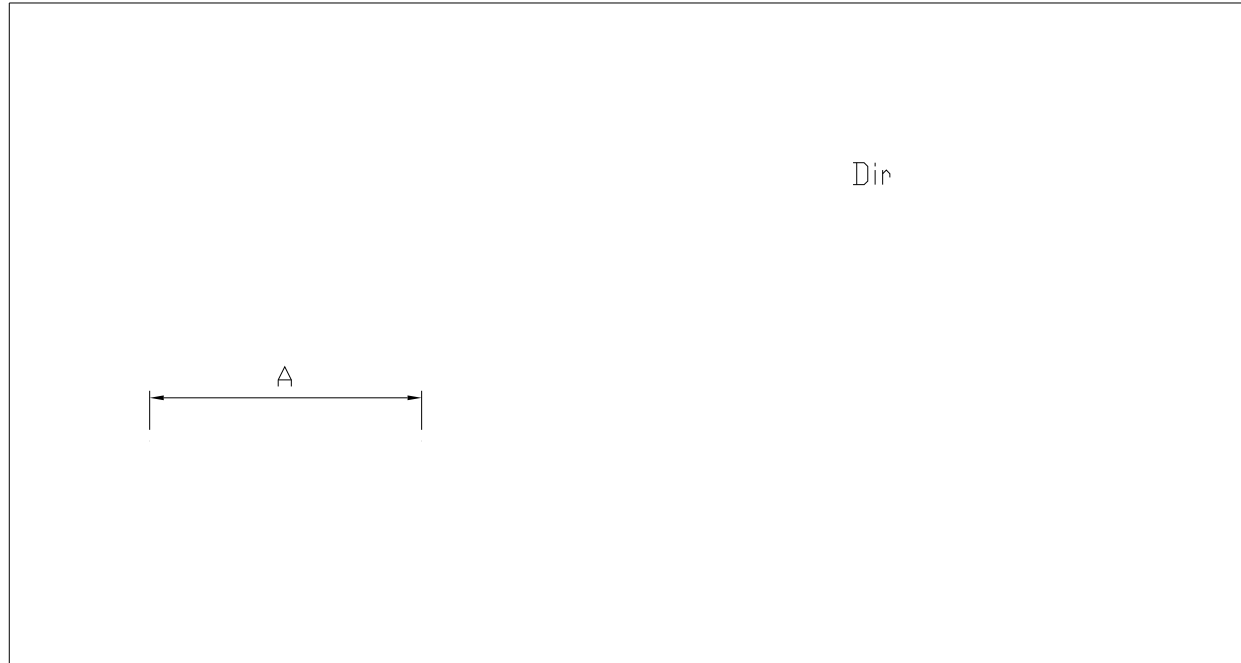


/ Electrical Characteristic Curve(Ta=25)



/ Package Dimensions

DFN0603Unit:mm



Rev.02 202102



/ Marking Instructions



A5

Note

A5

Product Type Code

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

- Note:
- 1

150 180

60 90sec;

2

245±5

5±0.5sec;

3

2 10 /sec.
- 1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat T 4CondiTs45 ±245r-