/ Descriptions

GIQ3936 ṂṂ Ƀ HVG Ɜ ï‾ ‖ ㄱ
DFN0603 Plastic Package ESD Protection Diode.

/ Features

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Ultra small package, Response Time is Typically < 1 ns, ESD > 30KV per Human Body Model,IEC61000ɕ4ɕ2 Level 4 ESD Protection,HF Product.

/ Applications

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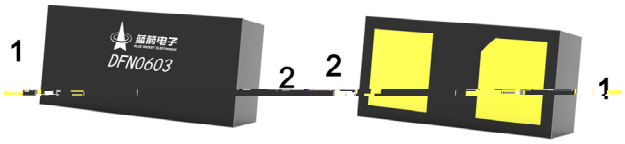
Suitable for cellular phones audio,MP3 players, Digital cameras, Portable devices, mobile telephone and other users.

/ Equivalent Circuit

/ Pinning



/ Marking

ð м ㄣ ب ˝ See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

v ̈Ω Parameter	ϒ N Symbol	̈Ω Ö Rating	D Ч Unit
Peak pulse power (t_p = 8/20μs)	P_K	69	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	5.5	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	150	
Storage temperature	T_{STG}	-55~+150	

/ Electrical Characteristics(Ta=25)

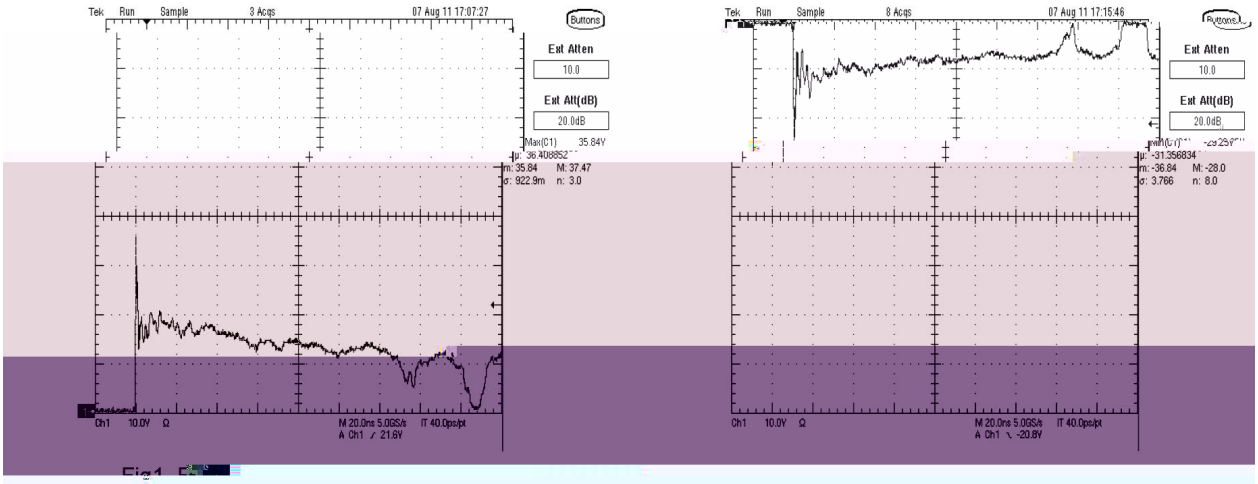
v ̈Ω Parameter	ϒ N Symbol	╨ :ˆ ϯ Test Conditions	ω ŋ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ч Unit
Reverse maximum working voltage	V_{RWM}				3.3	V
Reverse leakage current	I_R	V_{RWM} =3.3V			0.1	uA
Reverse breakdown voltage[1)]	V_{BR}	I_T = 1mA	5.0		6.8	V
Clamping voltage [2)]	V_C	I_{PP} = 1A t_p = 8/20μs			9.8	V
		I_{PP} = 5.5A t_p = 8/20μs			12.5	V
Junction capacitance	C_J	V_R = 0V f = 1MHz			15	pF

Notes:

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

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

/ Electrical Characteristic Curve



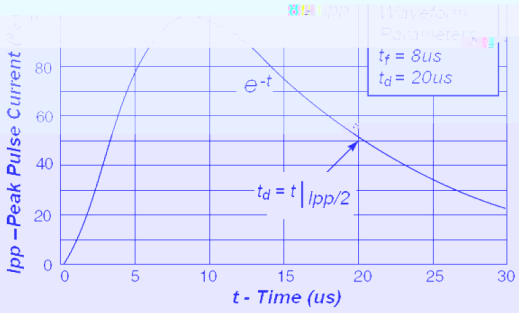
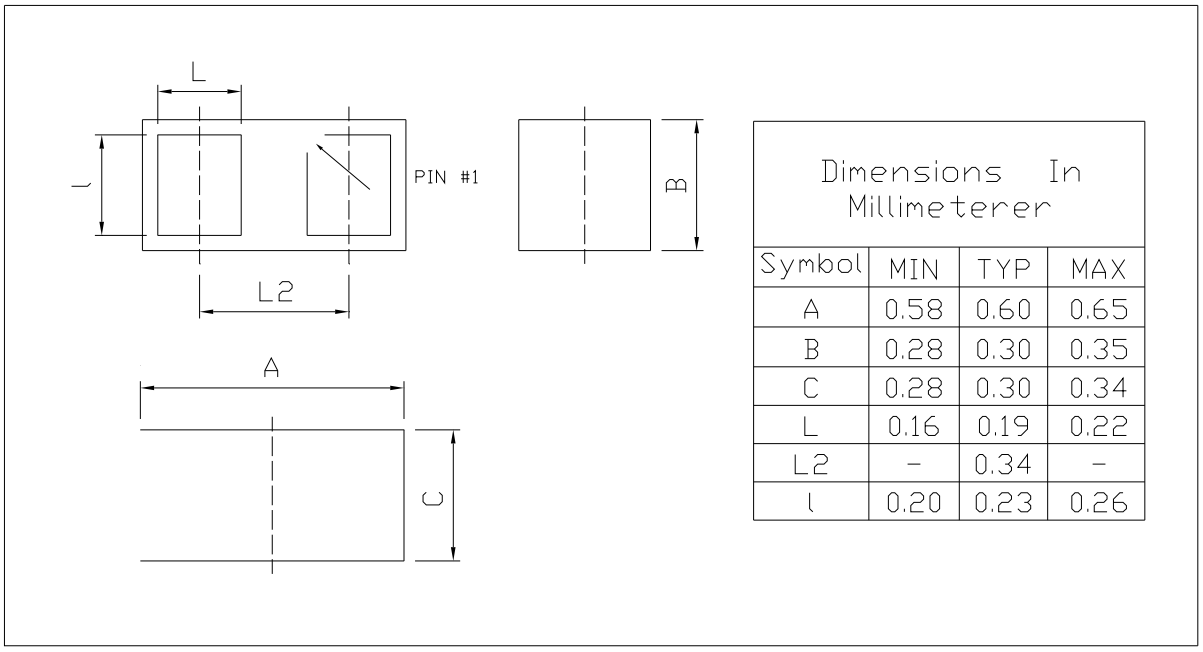


Fig3. Pulse Waveform

/ Package Dimensions

DFN0603 Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	0.58	0.60	0.65
B	0.28	0.30	0.35
C	0.28	0.30	0.34
L	0.16	0.19	0.22
L2	-	0.34	-
l	0.20	0.23	0.26

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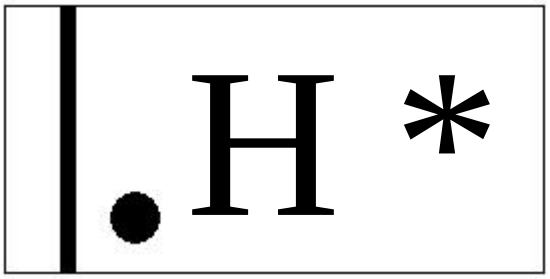
/ Marking Instructions



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Note χ

H χ Product Type

* χ Lot No. Code,code change with Lot No

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

ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 180 ɬ ı `H ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 245 ° 5 ɬ ı `H ڑ 'Y ʌ ʁ 5 ° 0.5sec;

3 ì ˙ ٢ ˛ ɔ ﻩ ỷ ʁ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:150~180 ɬ , Time:60~90sec.

2.Peak Temp.:245 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ɬ	`H ڑ χ 10 ° 1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

ɔ ` ɣ Ł / REEL