

Description

This is working voltage 5V ESD protection diode in a DFN0603 package

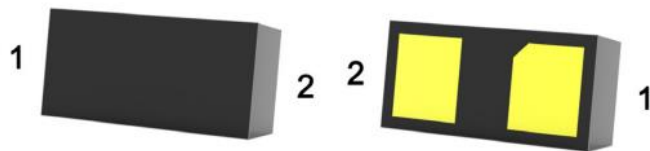
Applications

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

Features

- Ultra small package
- Response time is typically < 1 ns
- ESD > 30 kV per human body model
- IEC61000-4-2 level 4 ESD protection
- Halogen-free product

Equivalent Circuit & Pinning



Marking

See marking instructions

Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Peak pulse power (tp = 8/20μs)	PK	69	W
Peak pulse current (tp = 8/20μs)	IPP	5.5	A
ESD according to IEC61000-4-2 air discharge	VESD	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	TJ	150	℃
Storage temperature	TSTG	-55~+150	℃

Electrical Characteristics (Ta=25℃)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	VRWM				5.0	V
Reverse leakage current	IR	VRWM = 5V			0.5	uA
		VRWM = 3.5V			0.3	uA
Reverse breakdown voltage ¹⁾	VBR	IT = 1mA	5.6			V
Clamping voltage ²⁾	VC	IPP = 1A tp = 8/20μs			9.8	V
		IPP = 5.5A tp = 8/20μs			12.5	V
Junction capacitance	CJ	VR = 0V f = 1MHz			15	pF

Notes:

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

Non-repetitive current pulse, according to IEC61000-4-5

Electrical Characteristic Curve

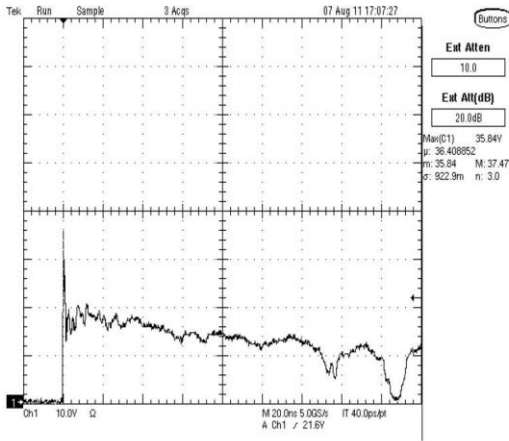


Fig1. ESD Clamping Voltage Screenshot

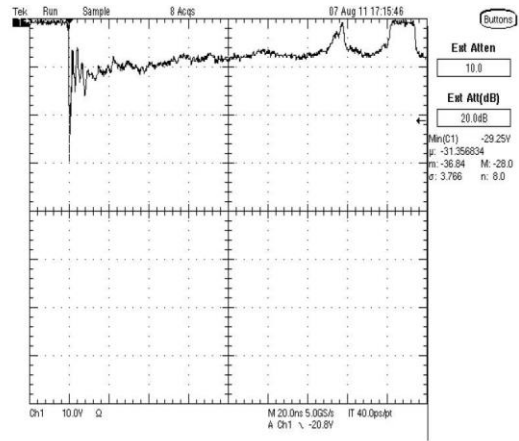


Fig2. ESD Clamping Voltage Screenshot

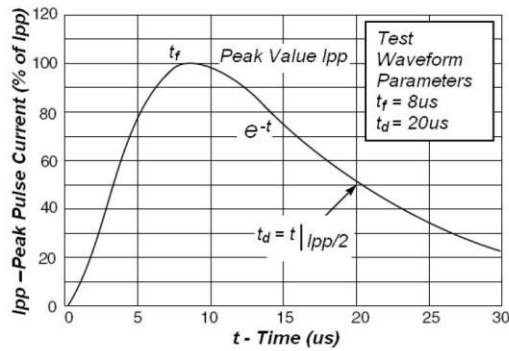
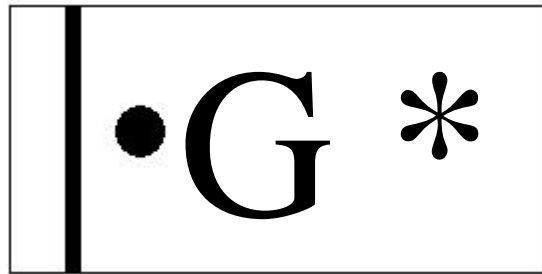


Fig3. Pulse Waveform

Marking Information



Note:

G: Product Type

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

Packaging SPEC

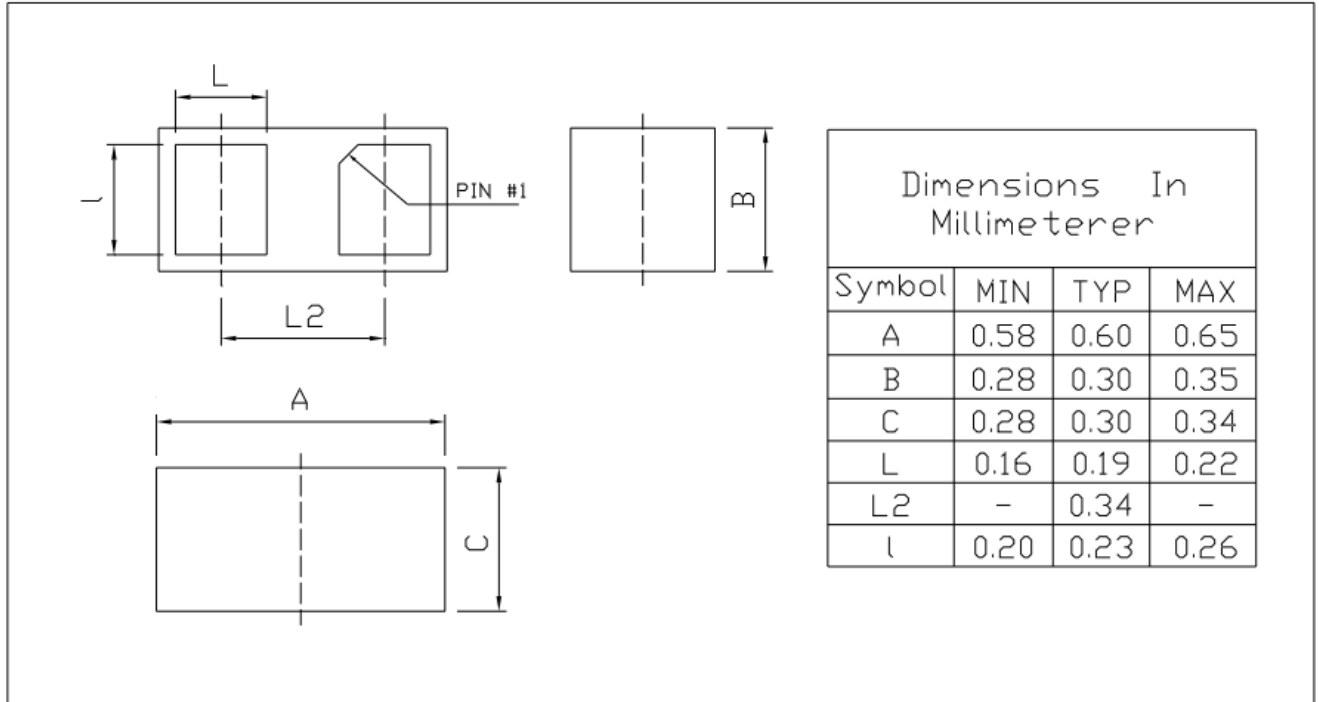
REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
DFN0603-2L	15,000	10	150,000	4	600,000	7" x8	210x205x205	445x230x435

Package Dimensions

DFN0603

Unit:mm



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