

5 é / Descriptions

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

□^a / Features

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; R Z X G Y S G R R V G I Q G M K 8 K Y V U T Y K : O S K O Y : Q V O V G R .] S ' G T (U J _ +

3 U J K R / +)]] 2 K \ K R + 9 * 6 X U Z K I Z O U T . , 6 X U J [I Z

Đ ÷ / Applications

9 ô Ñ ° È o • 3 6 n y ~ o • f A , Ñ o • Ž ` " — Ō o • g ¢ ^ ħ ħ ož

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

Ã W] Ô • / Equivalent Circuit

PIN2

PIN1

• Ū - æ / Pinning

, M V / Marking

• - ~^a ¢ ož See Marking Instructions.

3. Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Peak Pulse Power($t_p = 8/20 \text{ s}$)	P_{PK}	56	W
Peak Pulse Current($t_p = 8/20 \text{ s}$)	I_{PP}	4	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 20	KV
ESD according to IEC61000-4-2 contact discharge		± 20	
Junction temperature	T_J	125	
Storage Temperature	T_{STG}	-55~+150	

4. Electrical Characteristics($T_a=25^\circ\text{C}$)

Definitions of electrical characteristics

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				5.0	V
Reverse leakage current	I_R	$V_{RWM} = 5.0V$			100	nA
Reverse breakdown voltage ¹⁾	V_{BR}	$I_T=1mA$	6.0			V
Clamping voltage ²⁾	V_{CL}	$I_{PP} = 1A \quad t_p = 8/20 \text{ s}$			10	V
		$I_{PP} = 4A \quad t_p = 8/20 \text{ s}$			14	V
Junction Capacitance	C_J	$V_R = 0V \quad f = 1MHz$		0.20	0.40	pF

Notes:

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

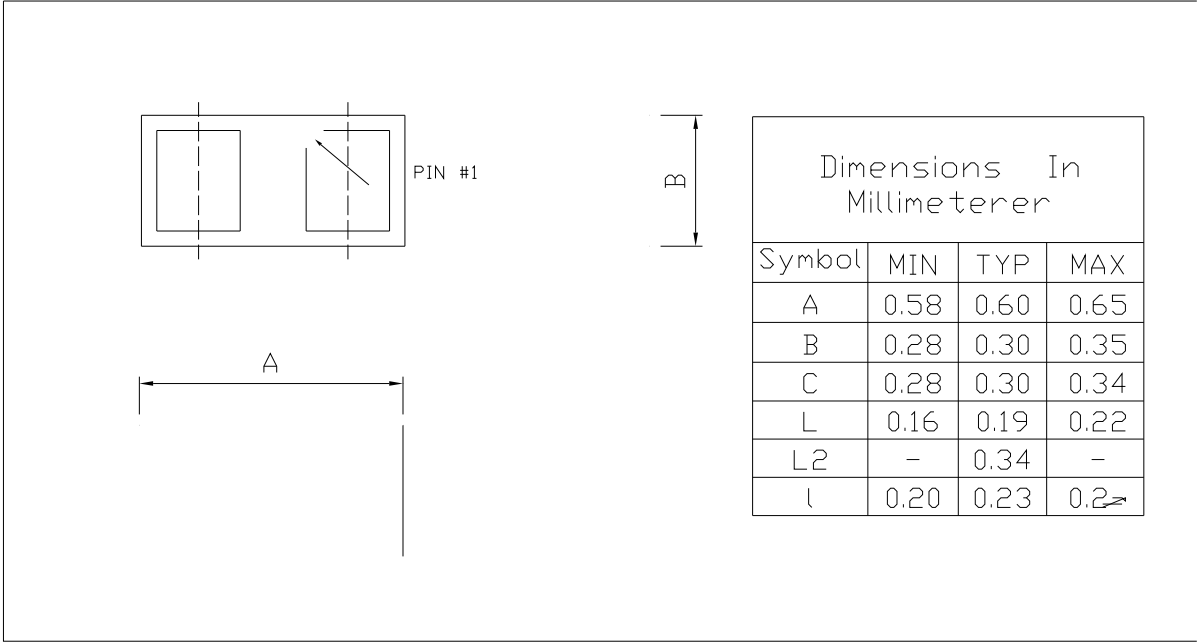
2) Non-repetitive current pulse, according to IEC61000-4-5.

Ô ? d • Ž ¢ / Electrical Characterist>qct2vcT732(a10.1=2c)-4.65

Ø □ =) ☿ / Package Dimensions

DFN0603

Unit:mm



Rev.02 202102

, M y f / Marking Instructions

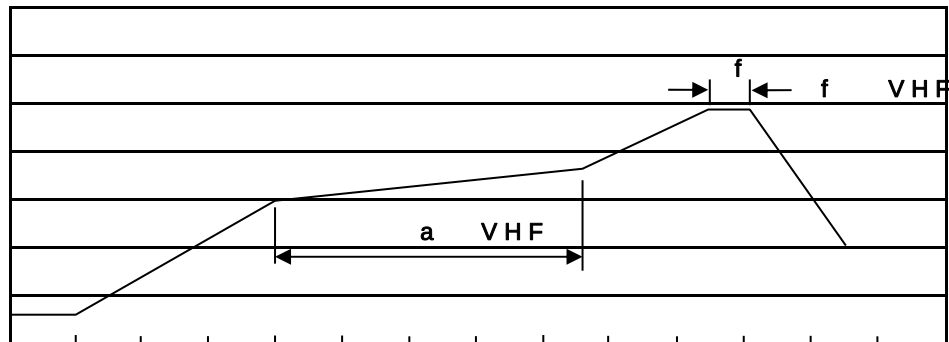
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Note y
U5 y Product Type

ŠWD t... • Ž Ć (x /) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a Ć y

10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;

20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

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

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit /mm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
DFN0603	15,000	10	150,000	4	600,000	7 s ×8	210×205×205	445×230×435

„ Ð y f / Notices