

# BRESD5V0X1B2ZPQ

Rev.A Oct.-2025



DATA SHEET

DFN1006-2L

ESD

DFN1006-2L Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

1ns

20KV

IEC61000-4-2 4 ESD

AEC-Q101

Ultra small package, Response Time is Typically < 1 ns, ESD > 20 kV per Human Body Model,IEC61000-4-2 Level 4 ESD Protection, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

MP3

Suitable for cellular phones audio,MP3 players, Digi

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

### Definitions of electrical characteristics

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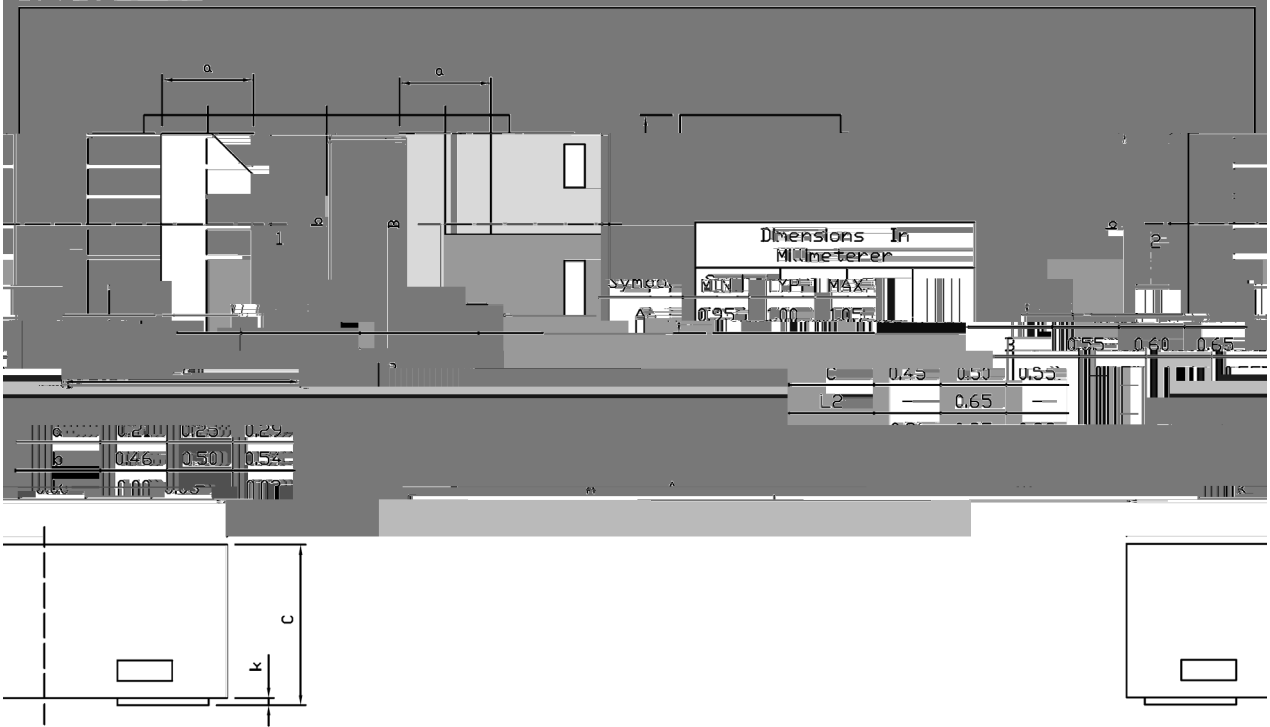
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	STG
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**BRES D5V0X1B2ZPQ**

**/ Package Dimensions**

DFN1006-2L

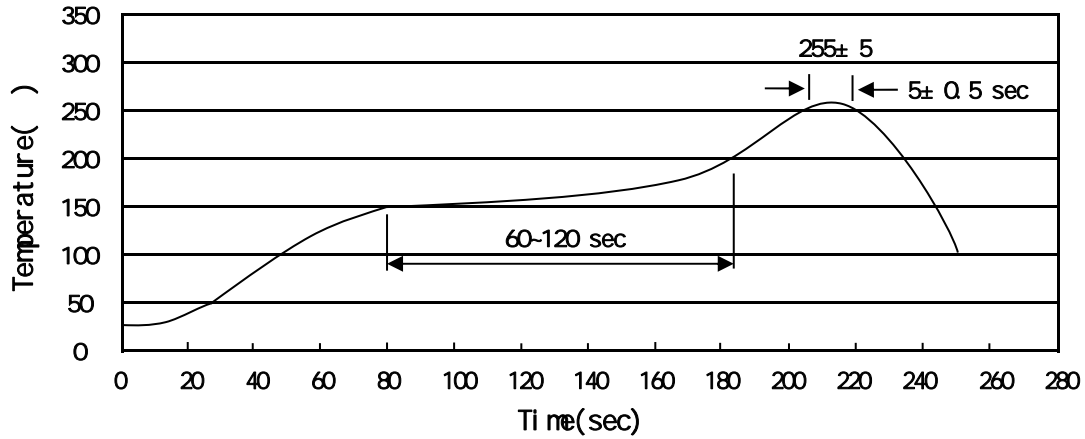
Unit:mm



Rev.01 202108

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



Note:

- 1            150 200            60 120sec;    1.Preheating:150~200 , Time:60~120sec.
- 2            255±5                    5±0.5sec;    2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3                            2 10 /sec.            3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5                    10±1 sec.                    Temp.:260±5                    Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
DFN1006-2L	10,000	10	100,000	6	600,000	7 x8	180x120x180	390x385x205

/ Notices