

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_{PK}	14.3(2.5sca64 4474f 3833T	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	

Definitions of electrical characteristics

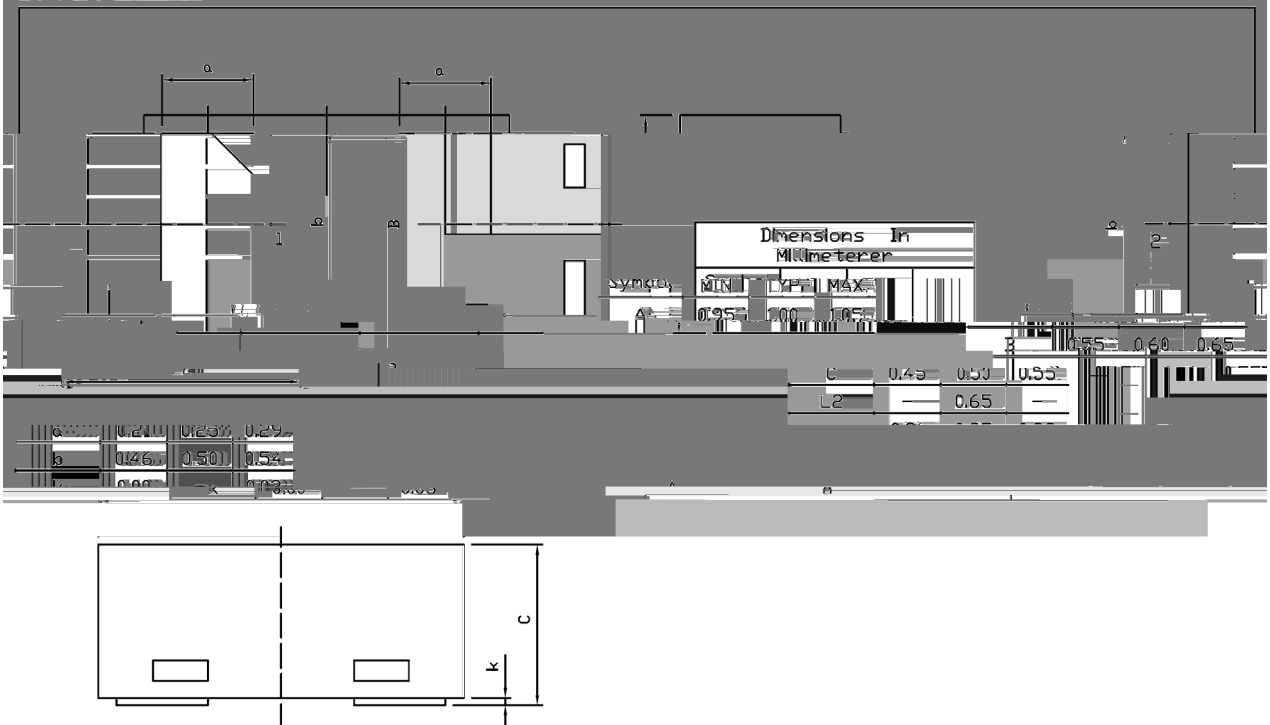
Parameter	Symbol	Test Conditions	Min	Typ	Max	Parameter Unit
-----------	--------	-----------------	-----	-----	-----	----------------

BRES D5V0X1B2ZPQ

/ Package Dimensions

DFN1006-2L

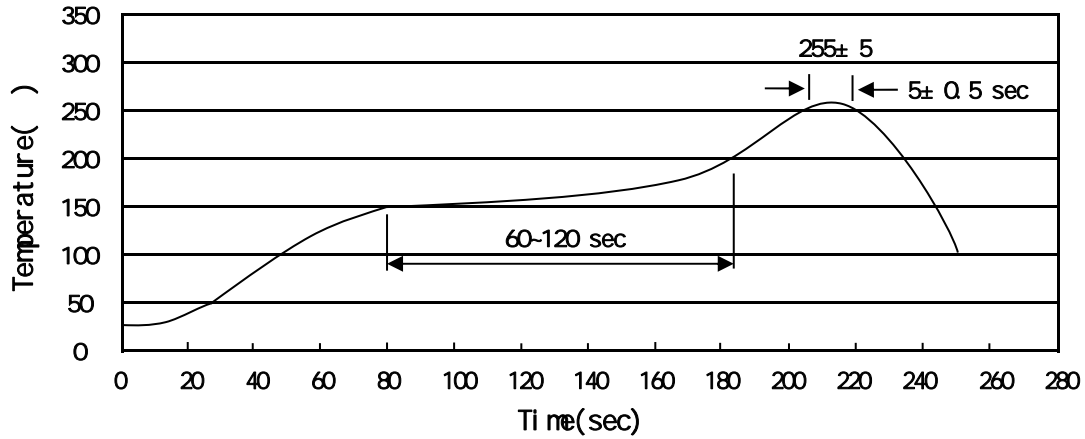
Unit:mm



Rev.01 202108

BRES D5V0X1B2ZPQ

() / 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 ³)		
	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