

# BRES12VP1B2ZP

Rev.B Jul.-2024



蓝箭电子  
BLUE ROCKET ELECTRONICS

DATA SHEET

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

Stand-off voltage:  $\pm 12V$  Max.

Transient protection for each line according to

IEC61000-4-2(ESD):  $\pm 30kV$  (contact)

IEC61000-4-2Vy969054(c3 IEC610005y962(Esurge-4.35-

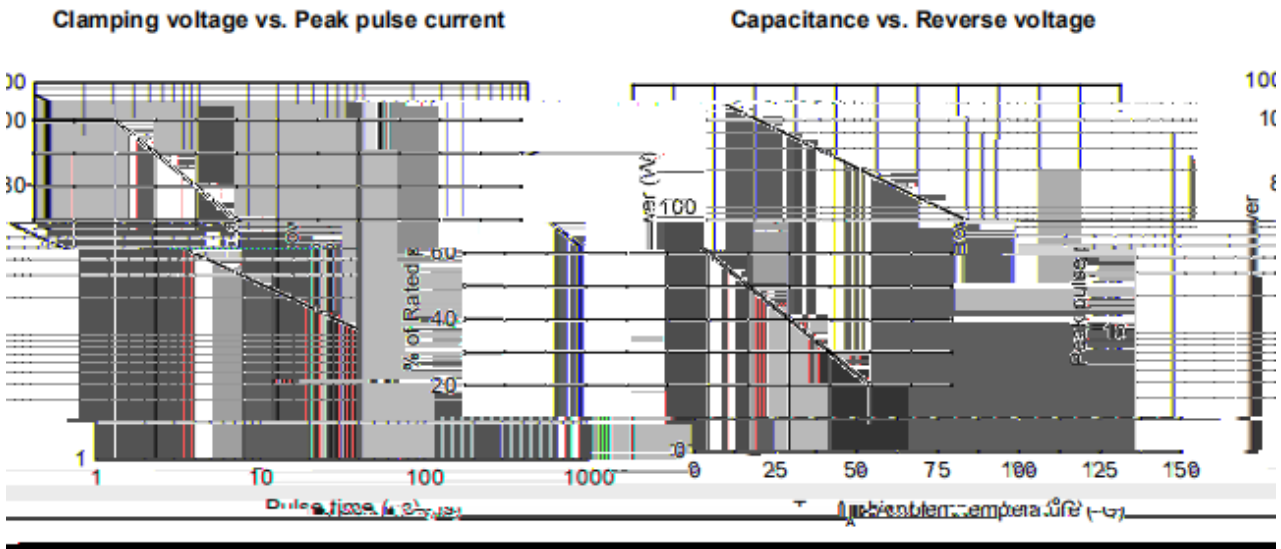
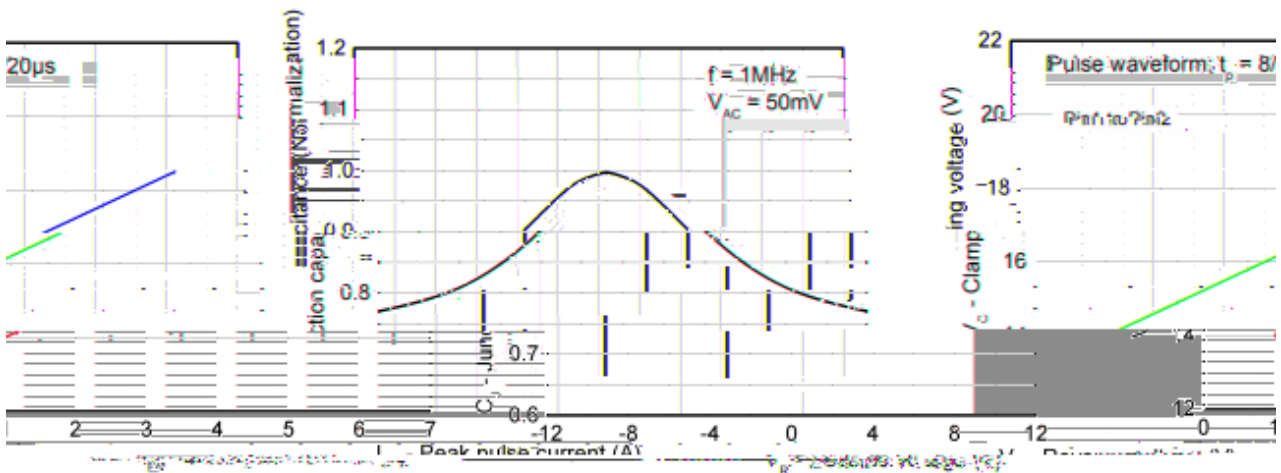
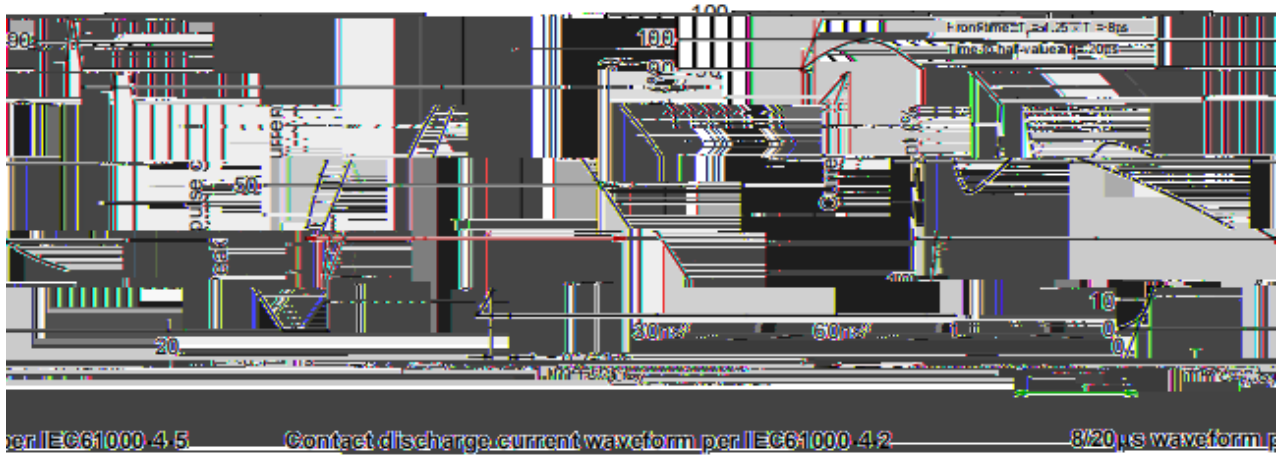
**/ Absolute Maximum Ratings**

Parameter	Symbol	Rating	Unit
Peak Pulse Power( $t_p = 8/20\mu s$ )	$P_{PK}$	120	W
Peak Pulse Current( $t_p = 8/20\mu s$ )	$I_{PP}$	6	A
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	
Junction temperature	$T_J$	125	
Operating temperature	$T_{OP}$	-40~85	
Lead temperature	$T_L$	260	
Storage Temperature	$T_{STG}$	-55~+150	

**Definitions of electrical characteristics**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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/ Electrical Characteristic Curve(Ta=25 )



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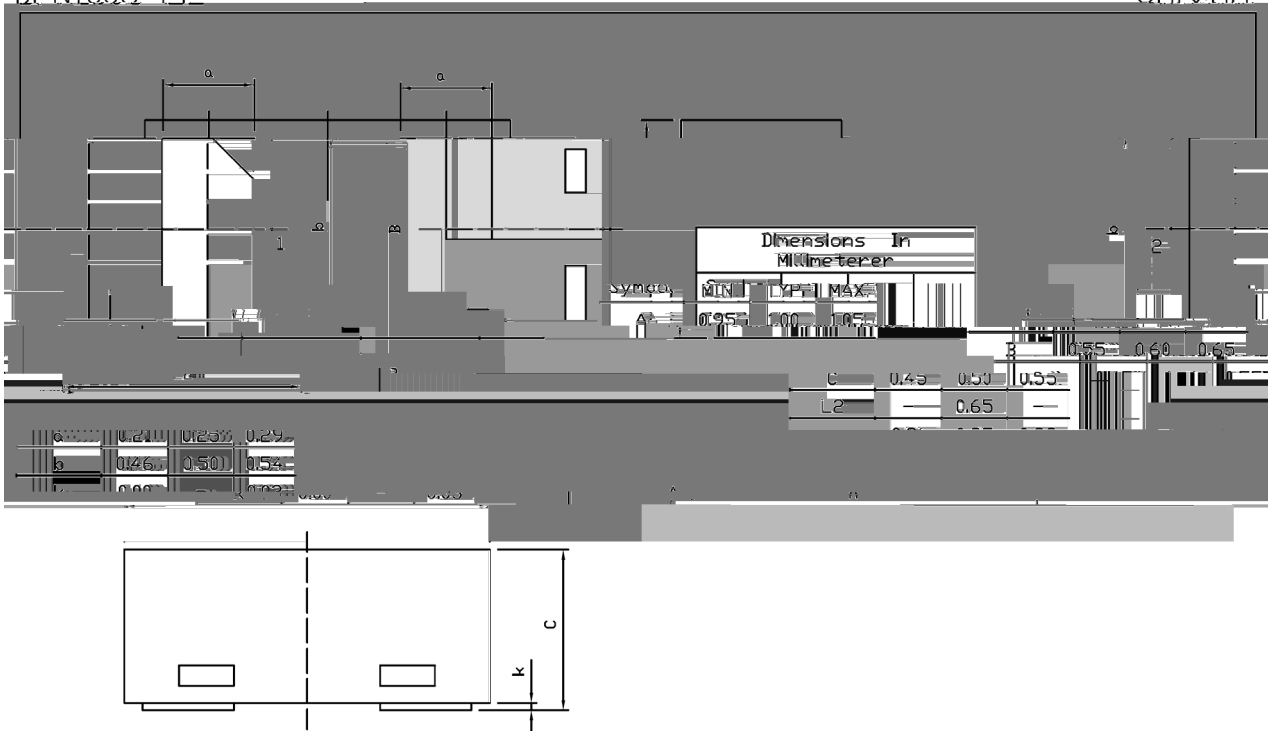
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## / Package Dimensions

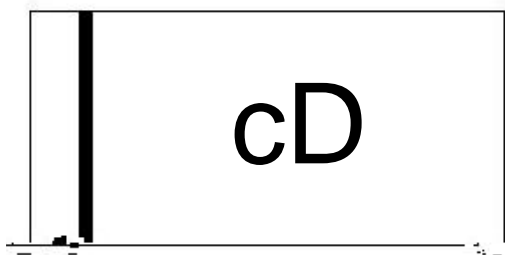
DFN1006-2L

Unit:mm



Rev.01 202108

**/ Marking Instructions**



Note

cD

Product Type Code

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


Note:

- |   |     |     |    |          |   |
|---|-----|-----|----|----------|---|
| 1 | 150 | 180 | 60 | 90sec;   | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245 | 5   | 5  | 0.5sec;  | 2.Peak Temp.:245 5 , Duration:5 0.5sec. |
| 3 |     |     | 2  | 10 /sec. | 3. Cooling Speed: 2~10 /sec.            |