

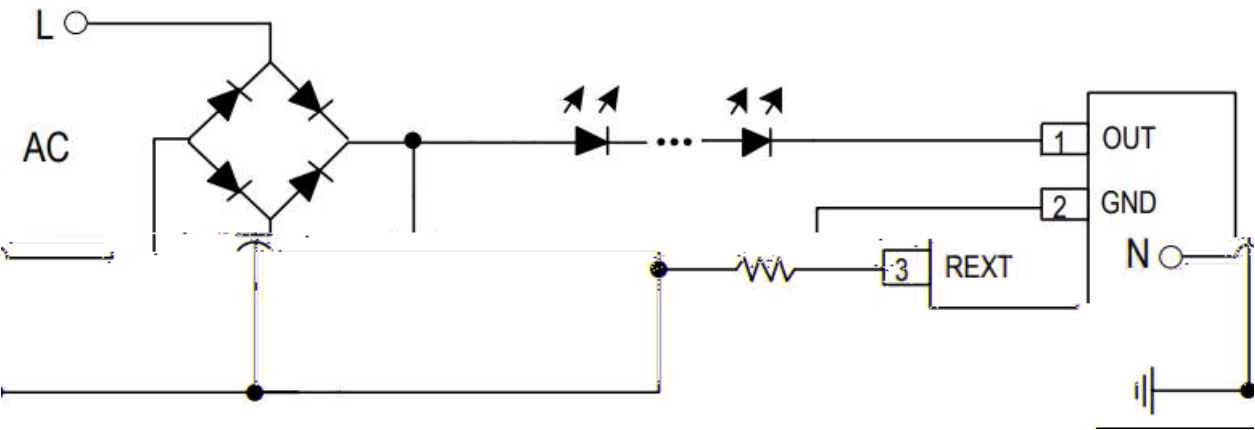
/ Descriptions

BRCG5111 SERIES	LED	EMI
BRCG5111 SERIES		±3%
60 mA		
BRCG5111 SERIES		

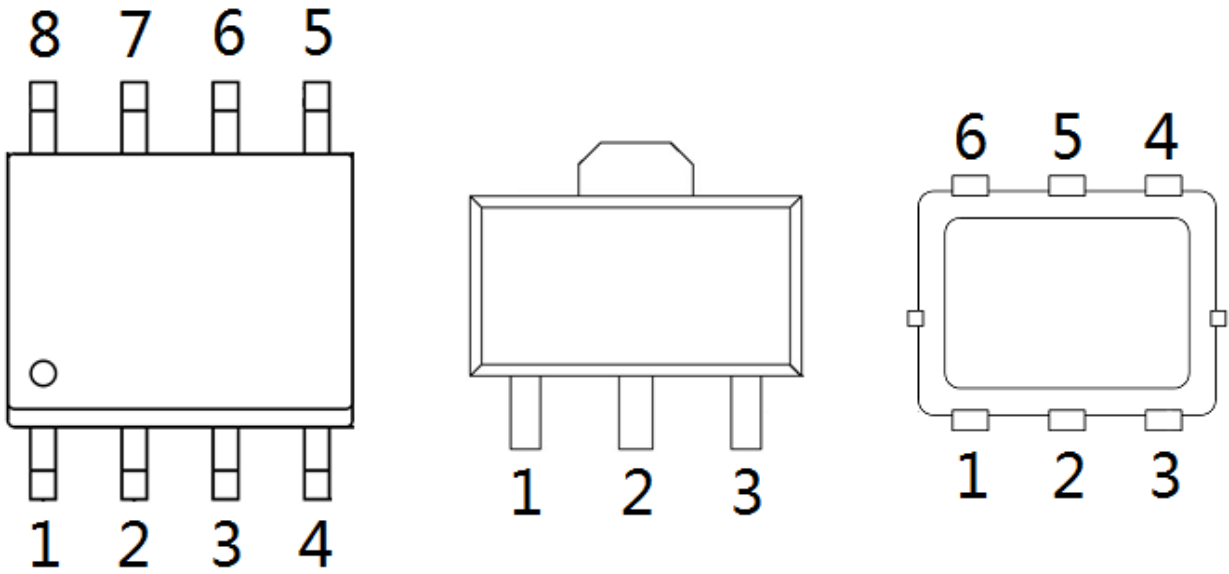
/ Features

- ◆
- ◆
- ◆ LED ESOP-8 SOT-89 60 mA
- ◆
- ◆ ±3% LED
- ◆ EMI
- ◆
- ◆ ESOP-8 SOT-89 PDFN3 2-6L

- ◆ LED
- ◆ LED /
- ◆ LED



/ Pinning



7	1	5	VOUT	
2	3	3	REXT	
1	2	1	GND	
3,4,5,6,8	/	2,4,6	NC	

/ Part Number

BRCG5111	

BRCG5111 Series

Rev.B Nov.-2023

/ Absolute Maximum Ratings(Ta=25)

PN	ESOP-8 ¹	θ_{JA}	80	/W
PN	SOT-89 ¹	θ_{JA}	100	/W
PN	PDFN3 2-6L ¹	θ_{JA}	150	/W
		T_J	-40~160	
		T_{STG}	-65~150	
	²	ESD	2	KV

1 PCB 20z 2Inch² 8
2 100pF 1.5K Ω

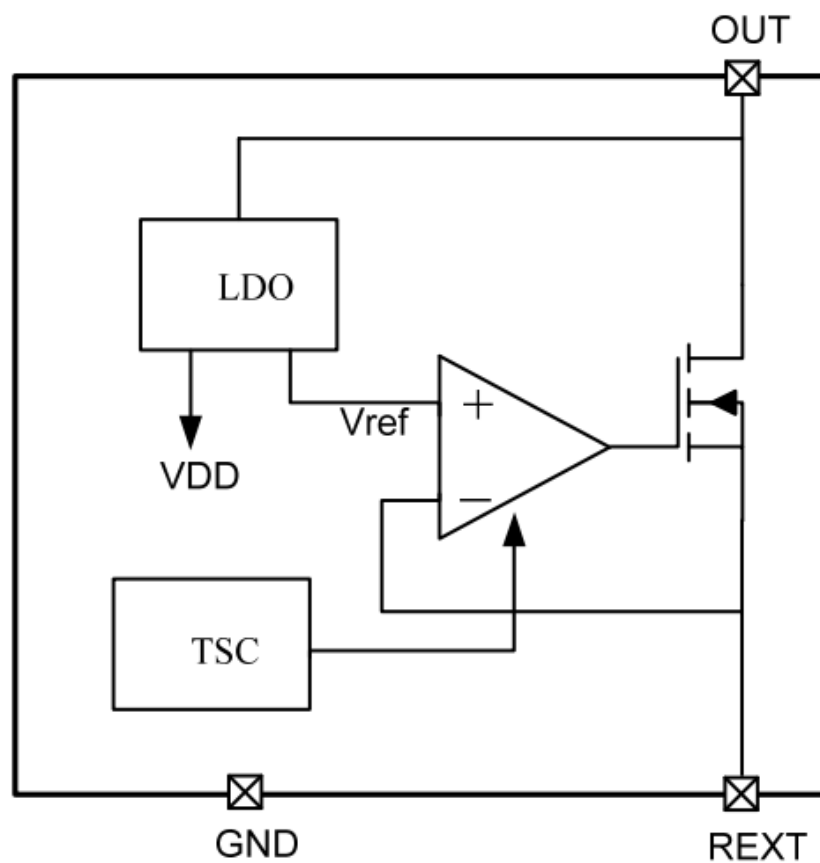
/ Working Range

I_{LED}	ESOP-8 & SOT-89	220Vac	<60	mA
I_{LED}	PDFN3 2-6L	220Vac	<40	mA

/ Electrical Characteristics($T_A=25^\circ\text{C}$)

OUT	V_{OUT_MIN}	$I_{OUT} = 30\text{mA}$			6.5	V
OUT	V_{OUT_BV}	$I_{OUT} = 0$	500			V
	I_{DD}	$V_{OUT} = 10\text{V}$ REXT		80	150	μA
	I_{OUT}	ESOP-8 & SOT-89	5		60	mA
	I_{OUT}	PDFN3 2-6L	5		40	mA
REXT	V_{REXT}	$V_{OUT} = 10\text{V}$	582	600	618	mV
I_{OUT}	dI_{OUT}	$I_{OUT} = 20\text{mA}$		± 3		%
	T_{SC}			150		

/ Functional Block Diagram



Rev.B Nov.-2023

BRCG5111 SERIES

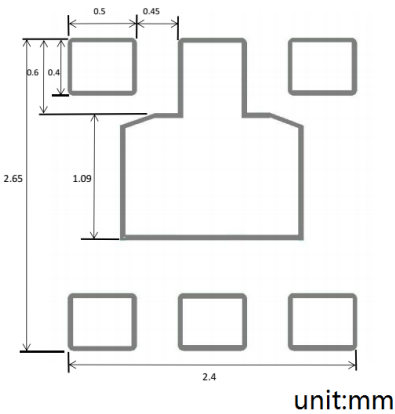
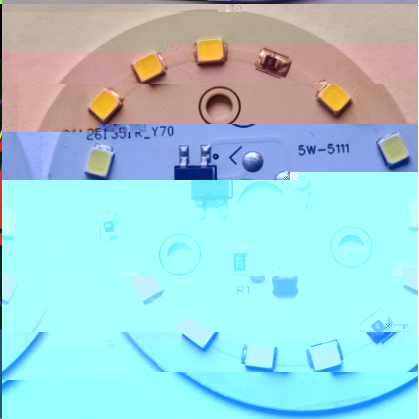
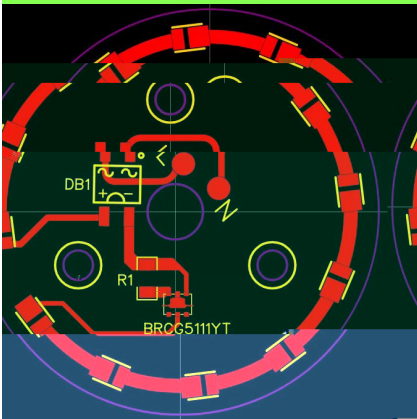
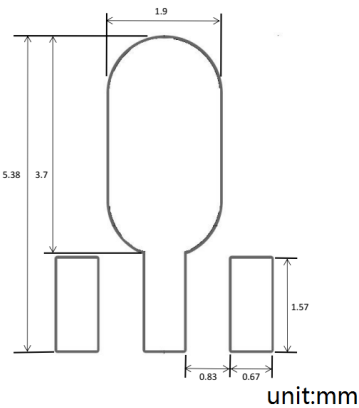
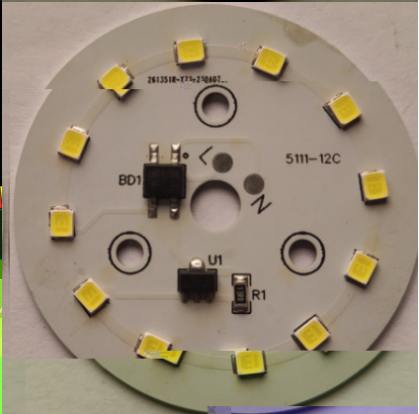
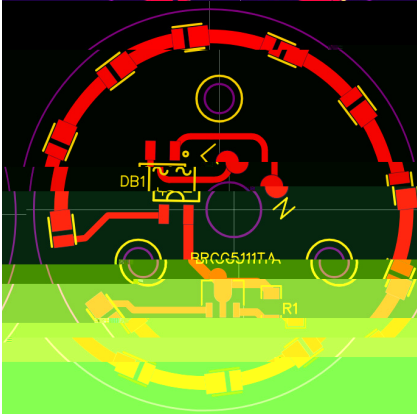
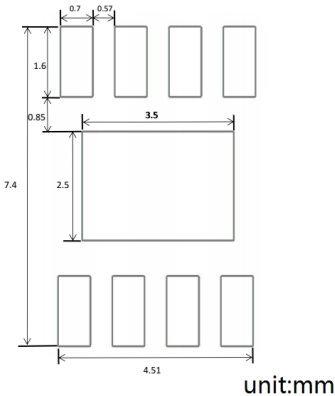
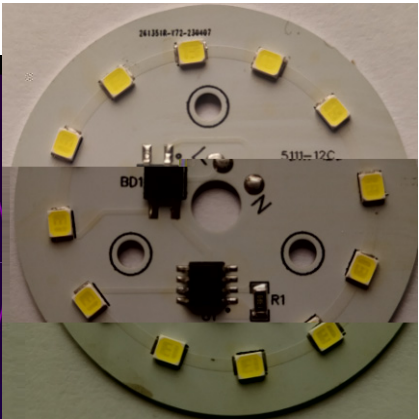
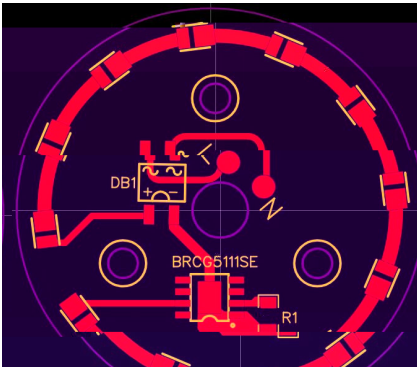
LED

EMI

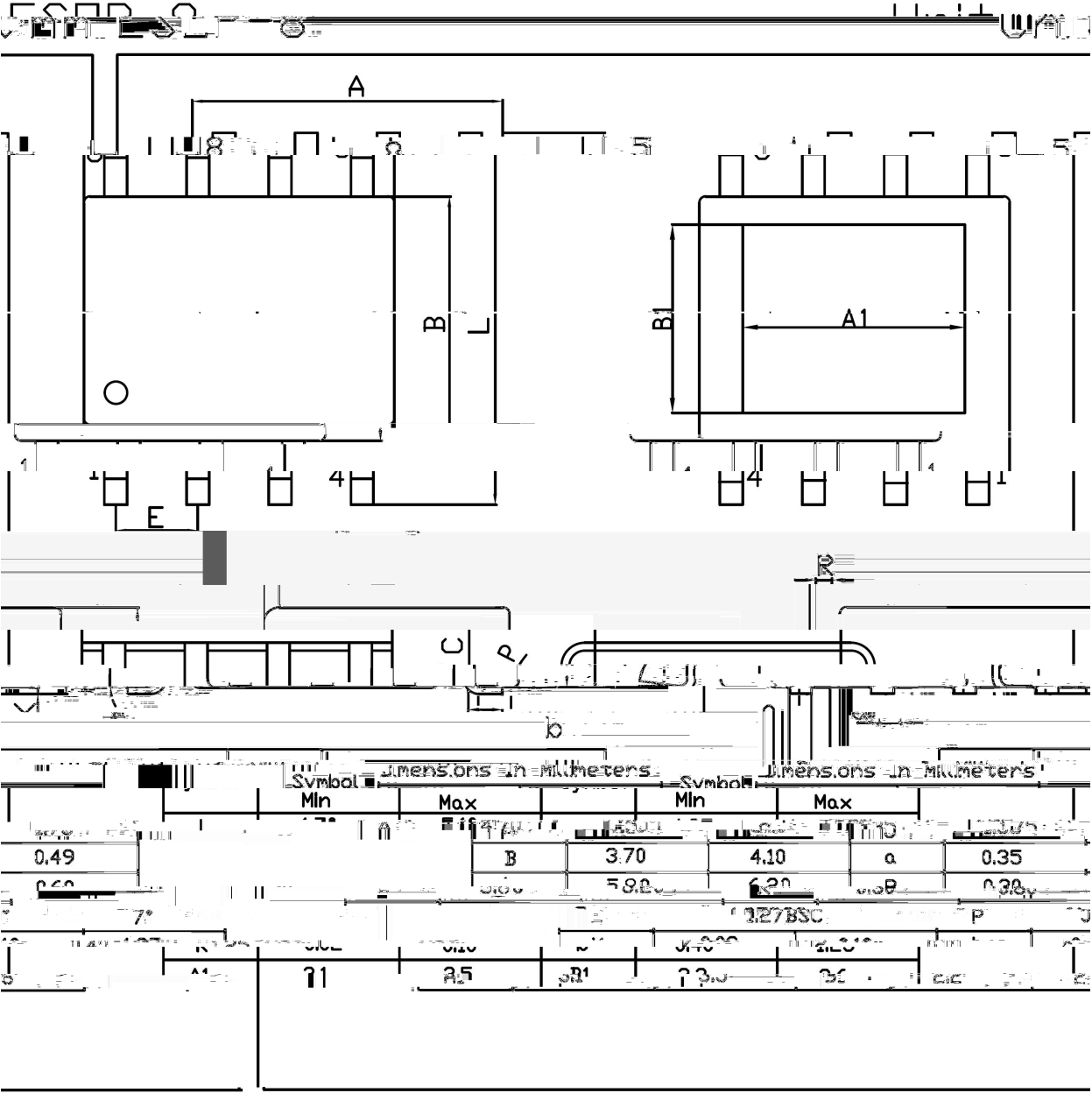
LED

TSC

PCB & & / PCB picture or Actual picture or Mounting pad size



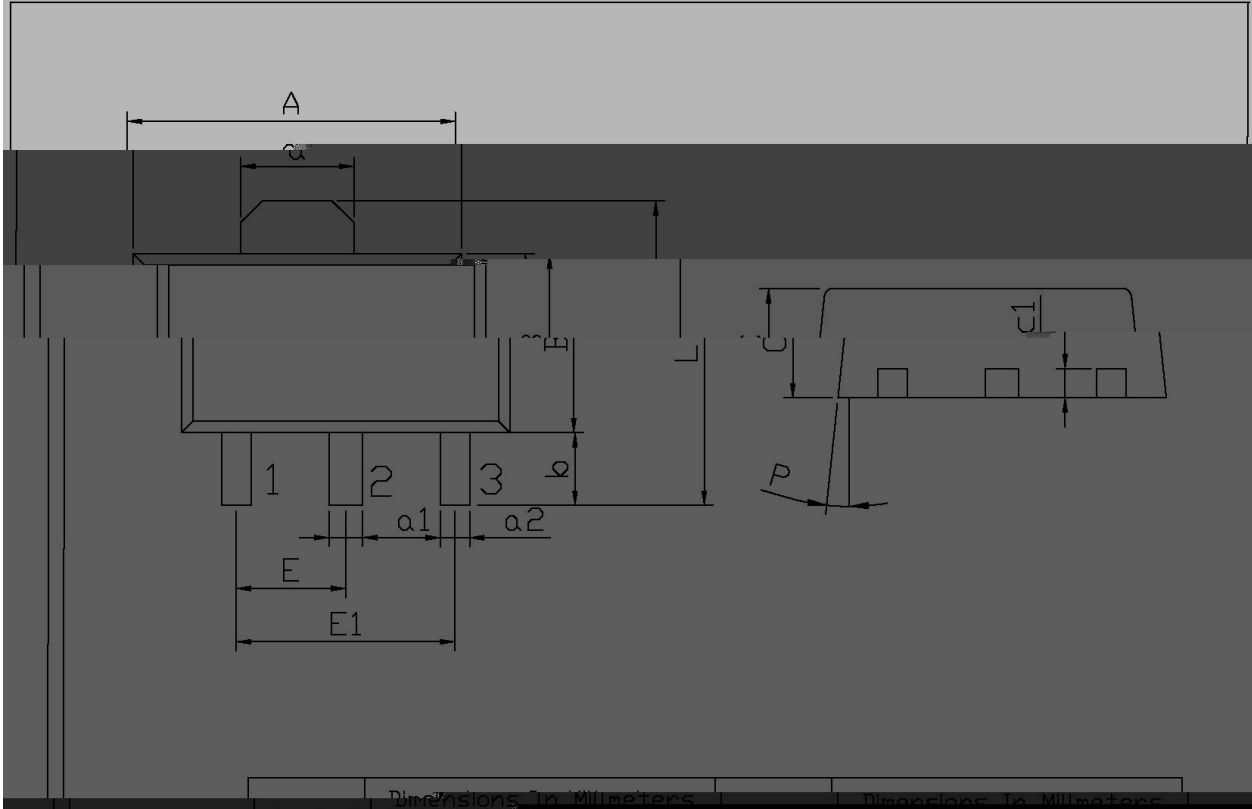
/ Package Dimensions



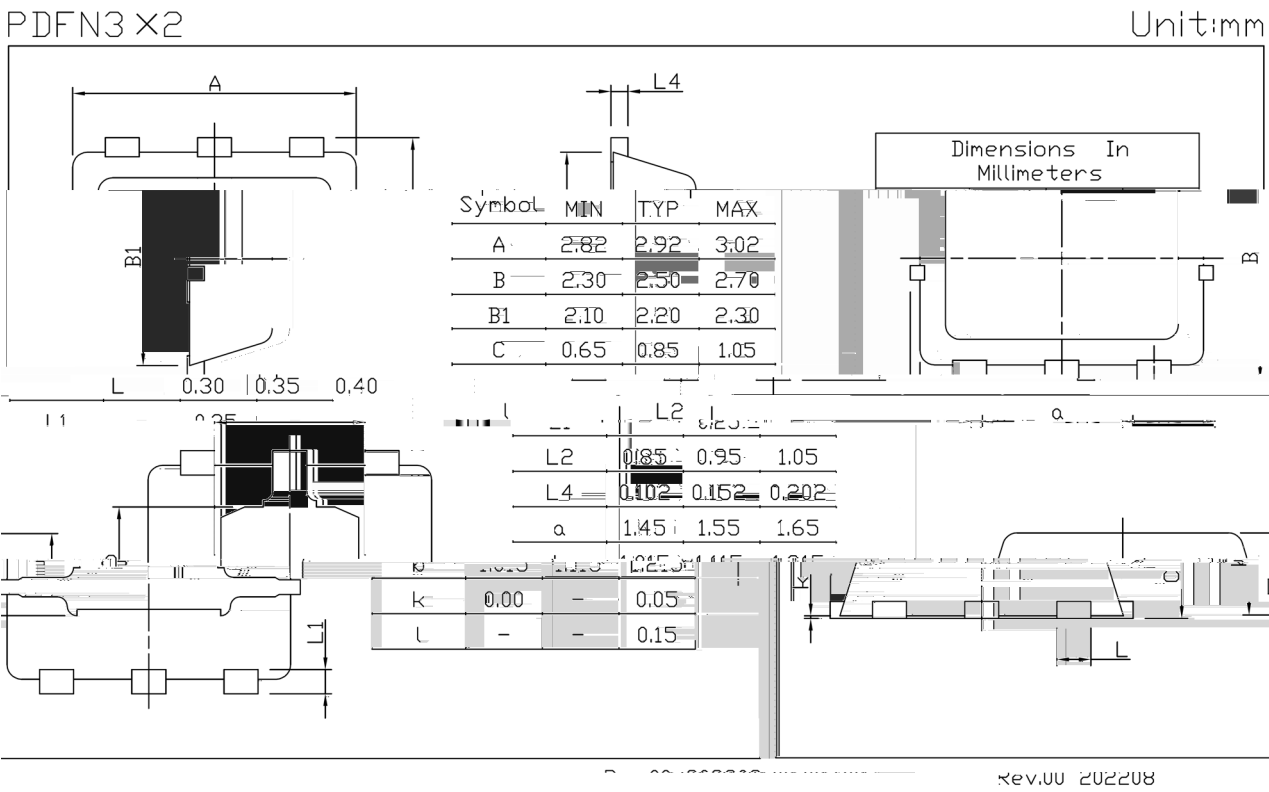
/ Package Dimensions

SOI-89

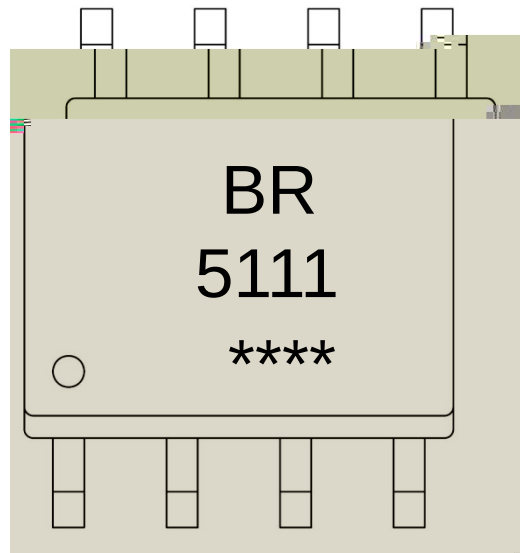
单位: 



/ Package Dimensions



/ Marking Instructions



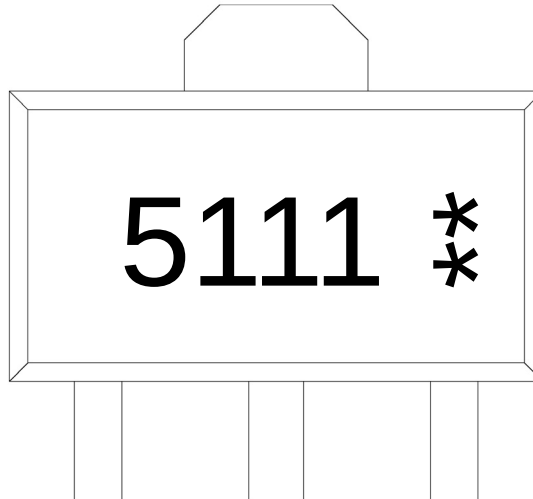
Note:

BR: Company Code

5111: Product Type Code

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

/ Marking Instructions



5111

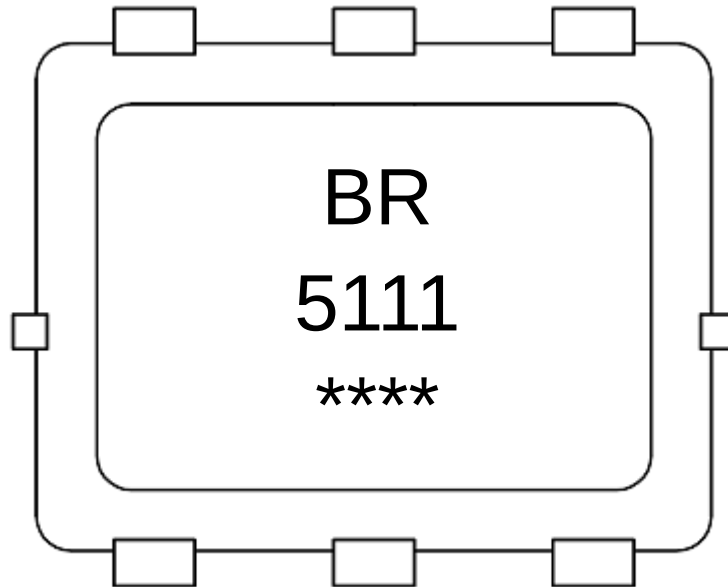
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Note

5111: Product Type Code

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

/ Marking Instructions



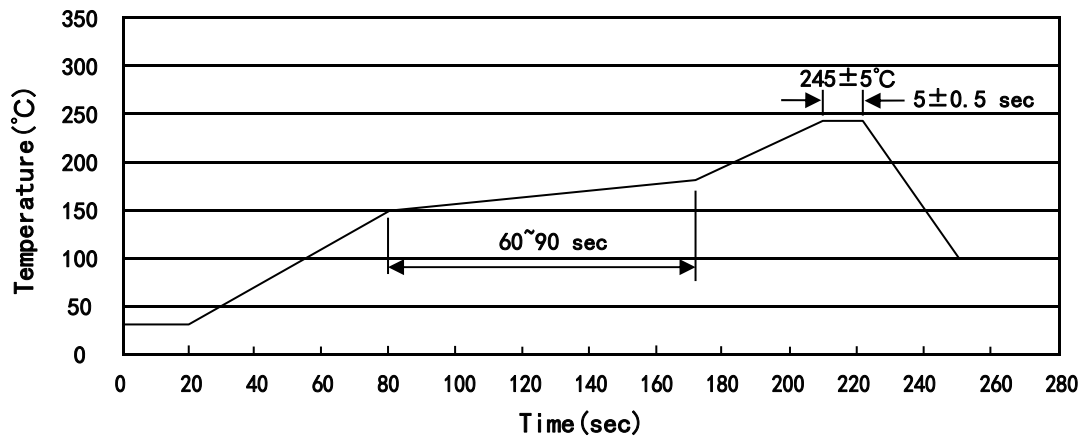
Note:

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() / 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. |

/ 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
SOP/ESOP-8	4,000	2	8,000	6	48,000	13 ×12	360×360×50	380×335×366

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
SOT-89	1,000	10	10,000	4	40,000	7 ×12	210×205×205	445×435×230

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
PDFN3×2-6L	3,000	10	30,000	4	120,000	7 ×8	210×205×205	445×435×230

/ Notices