

TIP32

Rev. H Oct.-2018

/ Descriptions

TO-220 PNP Silicon PNP transistor in a TO-220 Plastic Package.

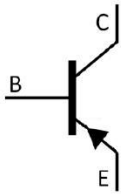
/ Features

TIP31
Complement to TIP31.

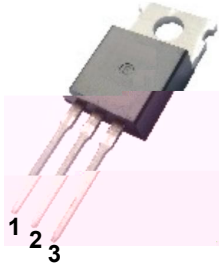
/ Applications

Medium power linear switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

See Marking Instructions.

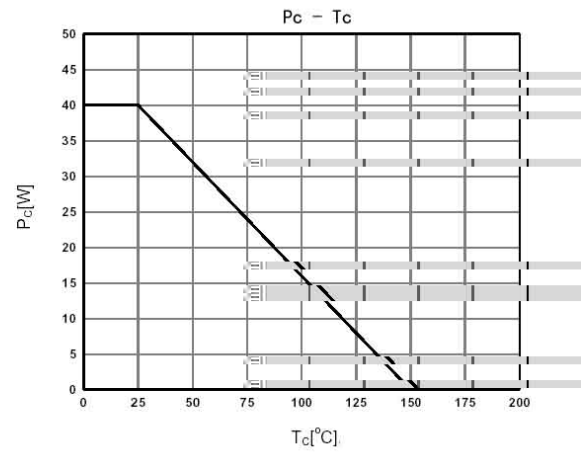
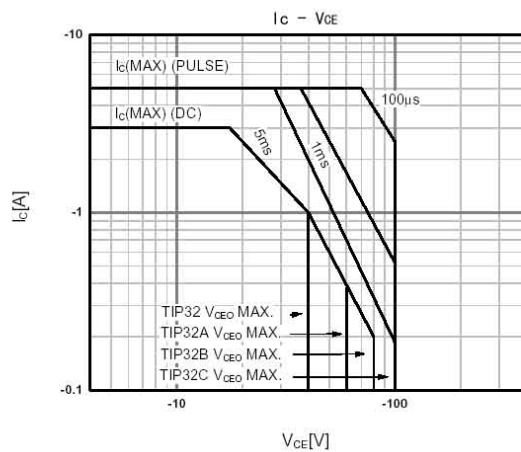
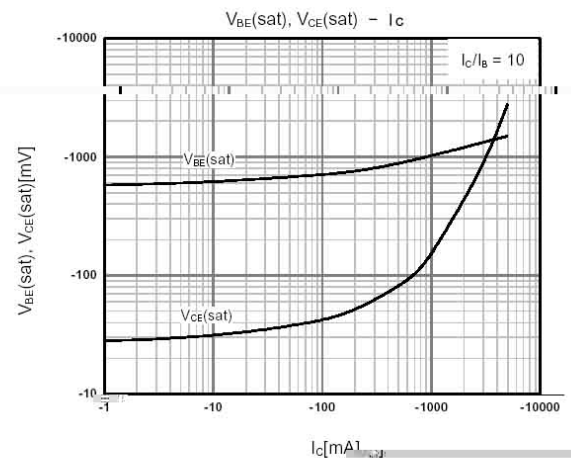
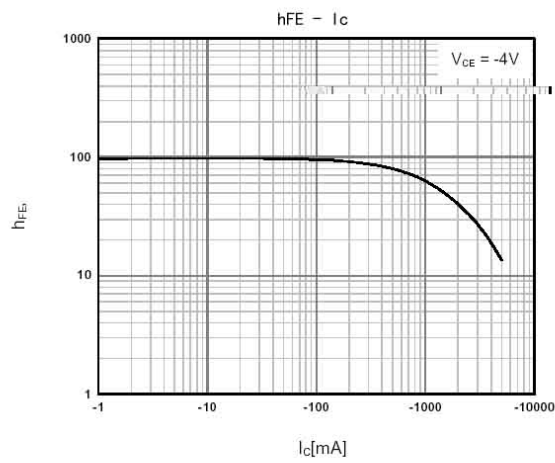
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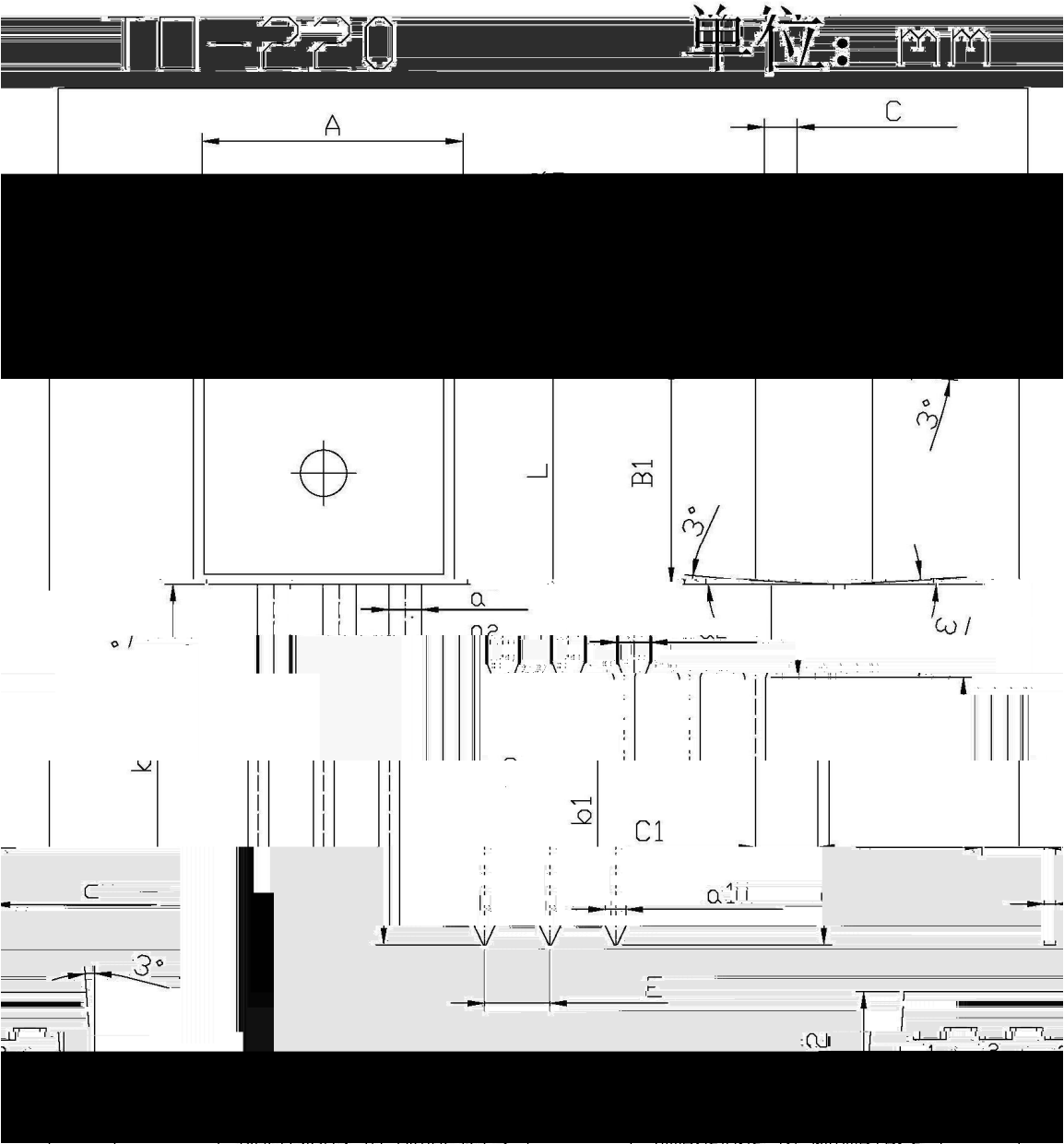
Parameter	Symbol	Rating				Unit
		TIP32	TIP32A	TIP32B	TIP32C	
Collector to Base Voltage	V_{CBO}	-40	-60	-80	-100	V
Collector to Emitter Voltage	V_{CEO}	-40	-60	-80	-100	V
Emitter to Base Voltage	V_{EBO}	-5.0				V
Collector Current-Continuous	I_C	-3.0				A
Peak Collector Current	I_{CP}	-5.0				A
Base Current - Continuous	I_B	-3.0				A
Collector Power Dissipation	P_C	2.0				W
Collector Power Dissipation	$P_C (T_c=25^{\circ}\text{C})$	40				W
Junction Temperature	T_j	150				$^{\circ}\text{C}$
Storage Temperature Range	T_{stag}	-55~150				$^{\circ}\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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/ Electrical Characteristic Curve



/ Package Dimensions



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	15.7	16.1	B1	9.3	9.4
C	0.4	0.6	a	1.22	1.32
a1	0.2	0.25	E	1.45	1.7

TIP32

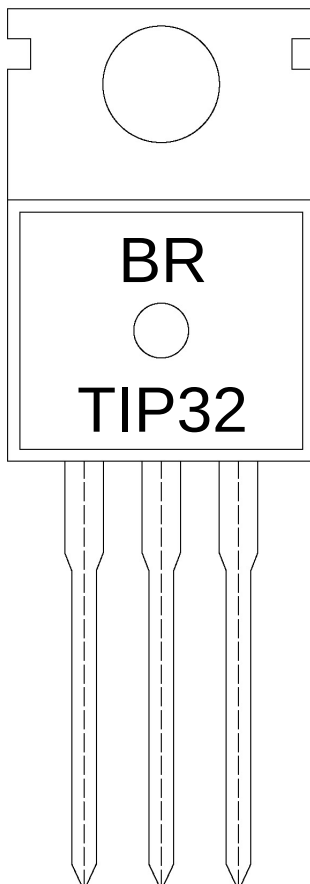
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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Marking Instructions



BR

TIP32

Note:

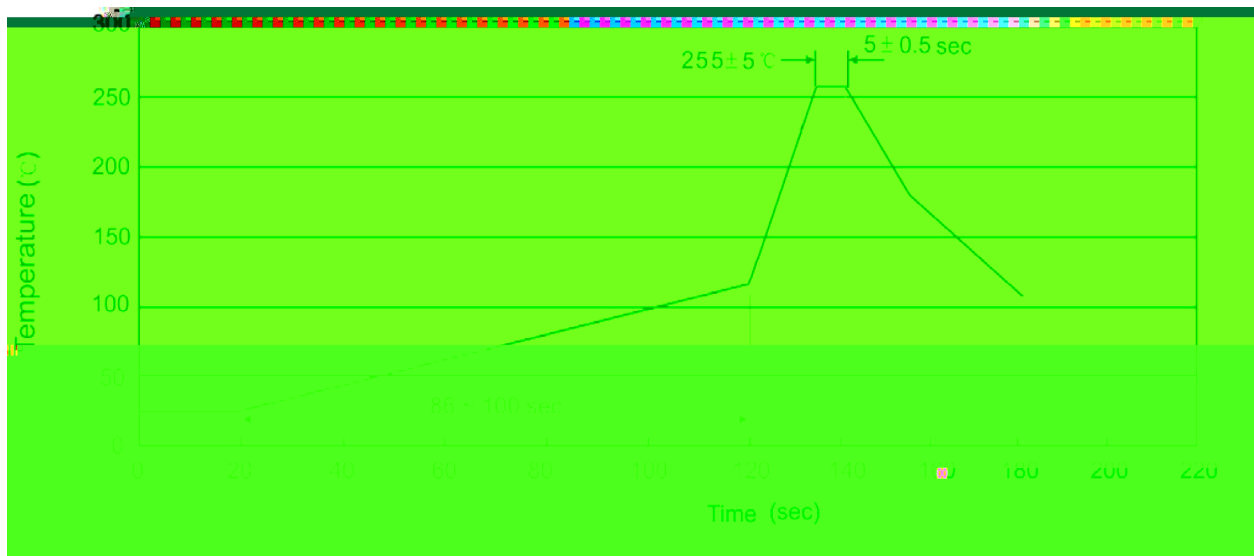
BR: Company Code

TIP32: Product Type.

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



() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 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

270±5 10±1 sec. Temp.:270±5℃ Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只套管	套管盒	只盒	盒箱	只箱	套管	盒	箱

/ Notices