

TIP32

Rev. H Oct.-2018

/ Descriptions

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

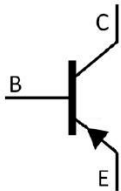
/ Features

TIP31
Complement to TIP31.

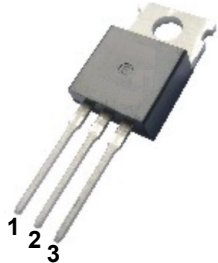
/ Applications

Medium power linear switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

See Marking Instructions.

TIP32

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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	$P_C (T_c=25^{\circ}C)$	40				W
Junction Temperature	T_j	150				$^{\circ}C$
Storage Temperature Range	T_{sag}	-55~150				$^{\circ}C$

Parameter

Symbol

Test Conditions

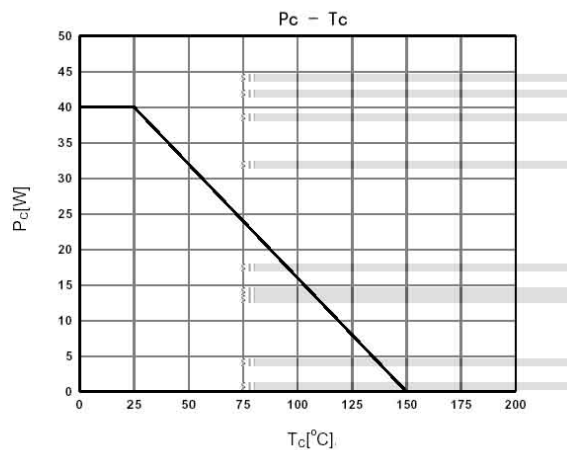
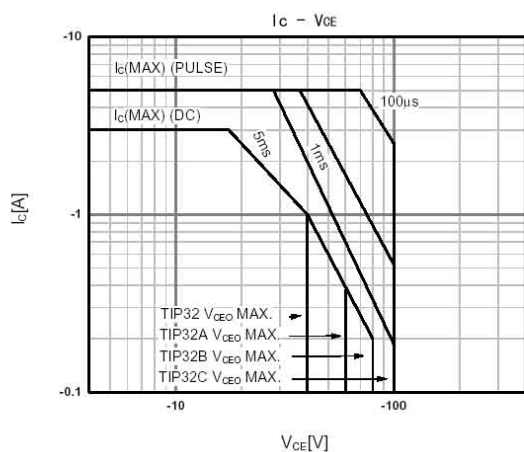
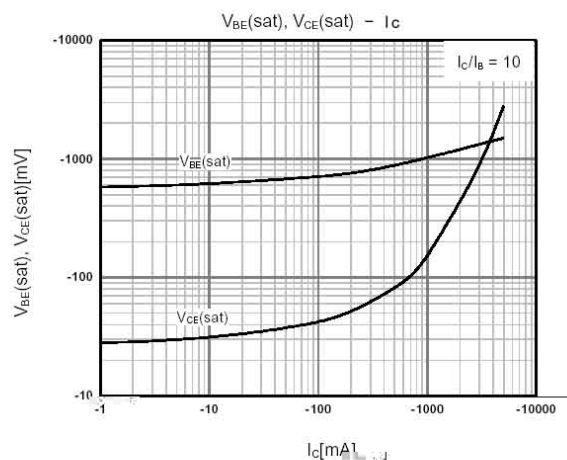
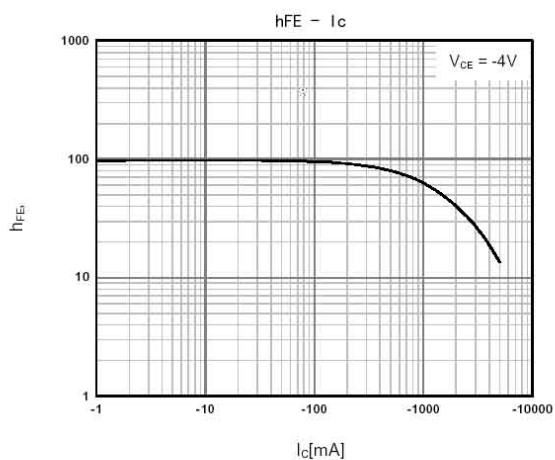
Min

Typ

Max

Unit
No. of Pins
Storage Temp. Range

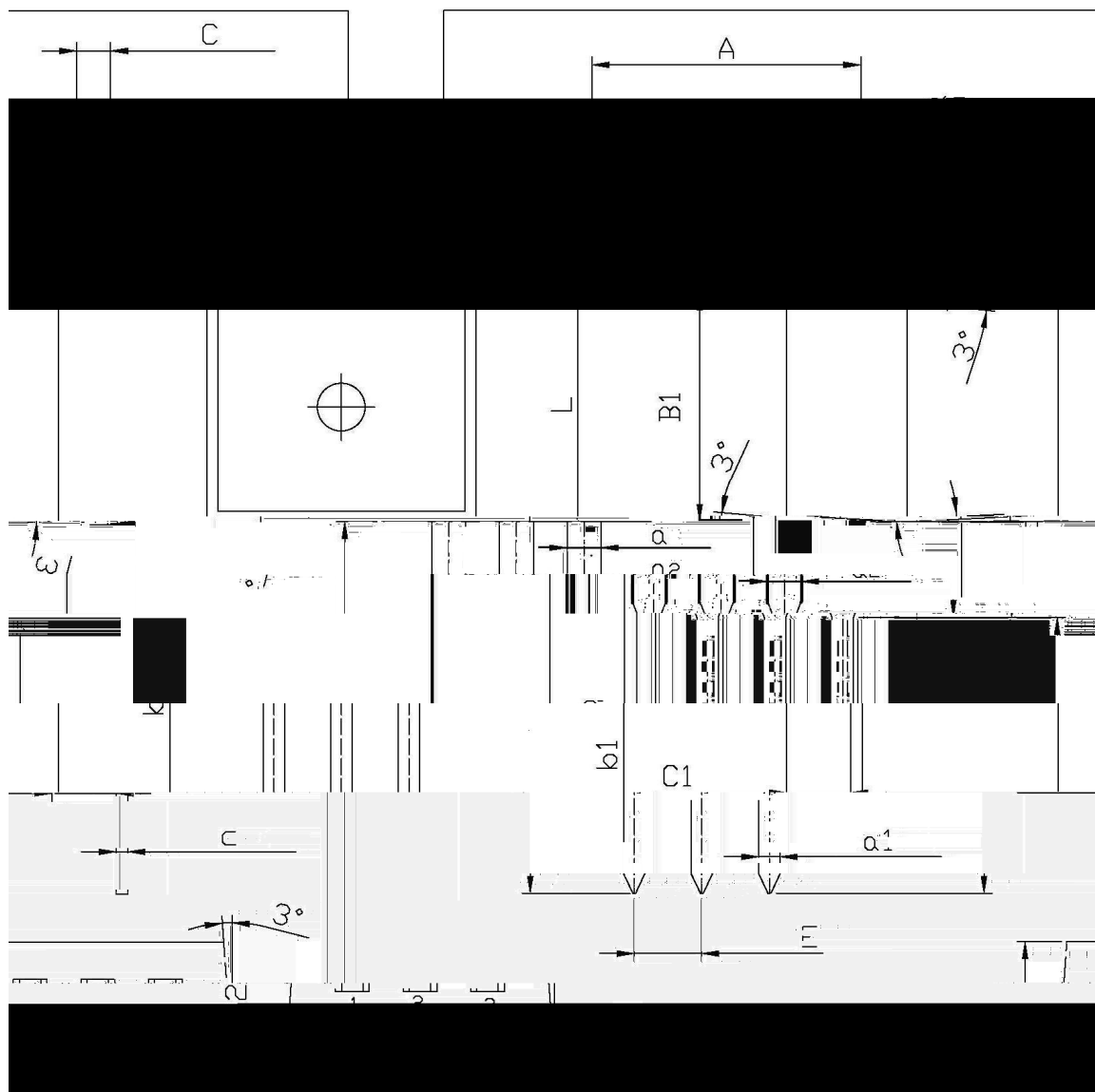
/ **Electrical Characteristic Curve**



/ Package Dimensions

单位: mm

TQ-220



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	9.8	10.2	C	1.2	1.4
B	3.50	3.64	B1	6.2	6.7
B1	16.1	9.0	C1	9.4	15.7
C	1.32	0.4	C1	0.6	1.2
C1	1.37	0.2	C1	0.6	1.2
C1	1.25	1.45	C1	0.6	1.2

TIP32

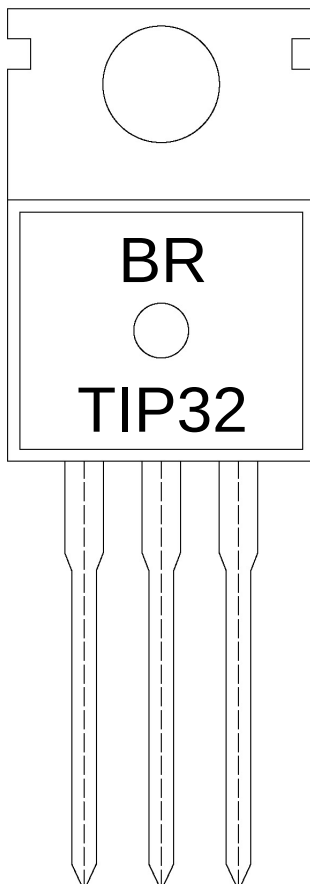
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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Marking Instructions



BR

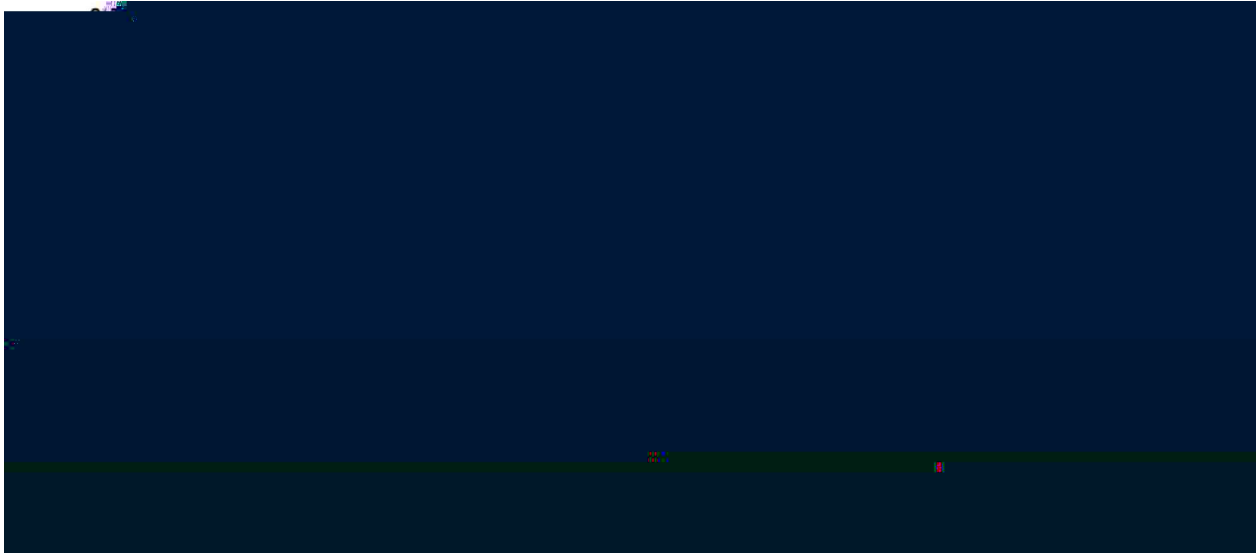
TIP32

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
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/ 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