

## / Descriptions

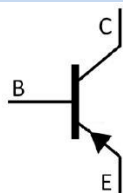
TO-220          PNP

## / Features

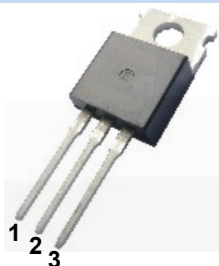
TIP31

## / Applications

## / Equivalent Circuit



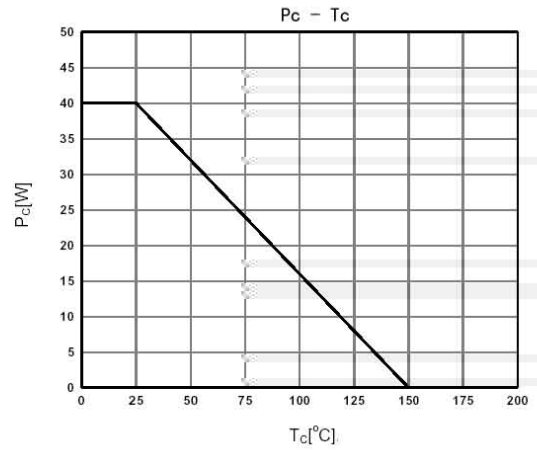
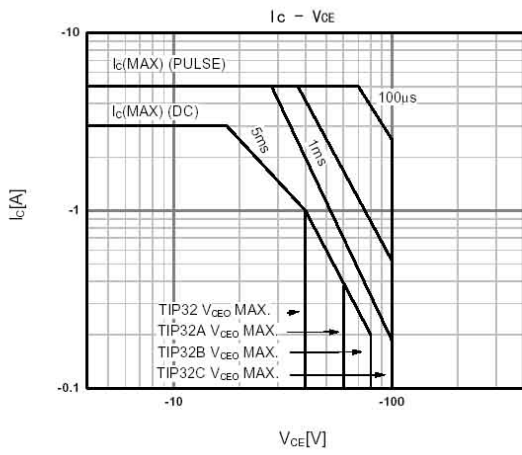
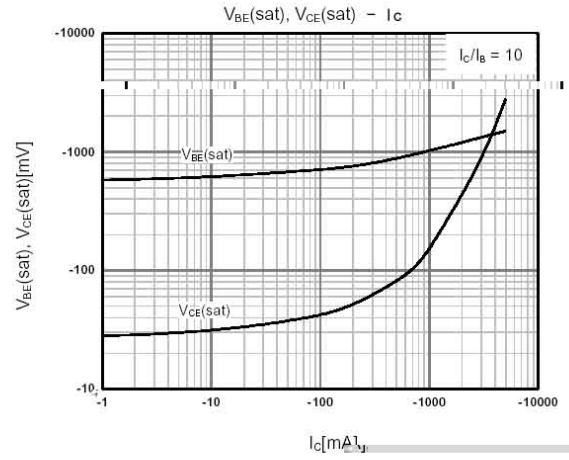
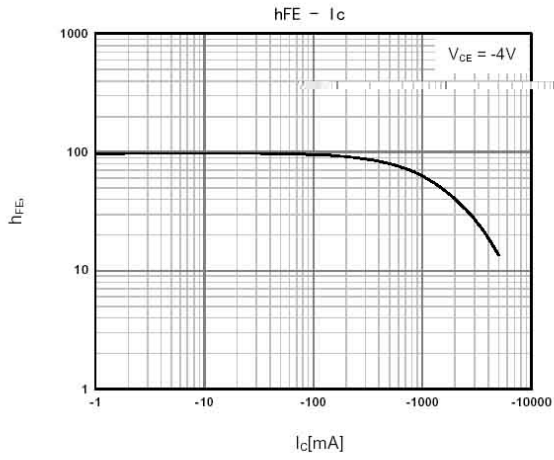
## / Pinning



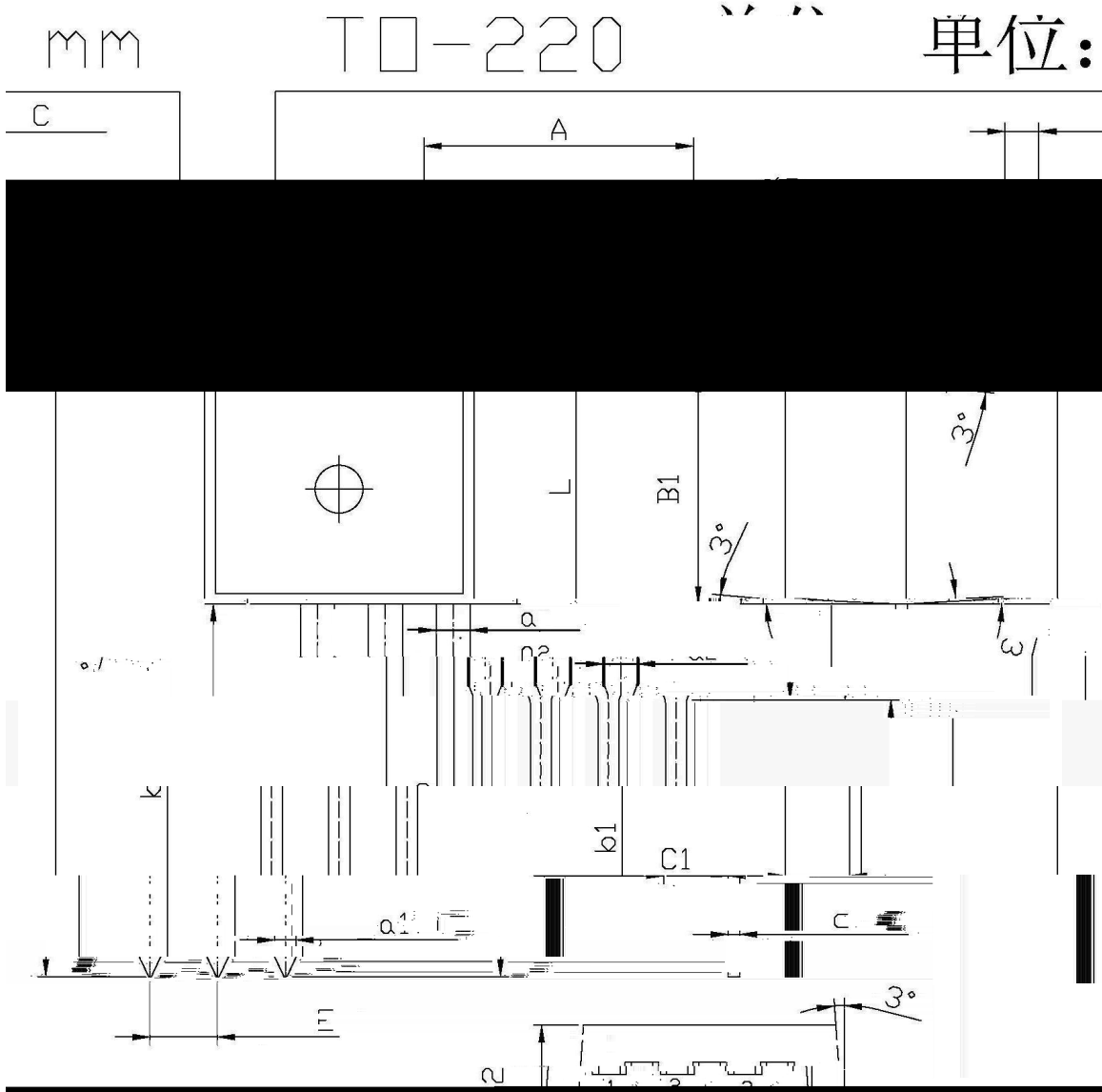
## / $h_{FE}$ Classifications & Marking

	°C					
						°C
		~				°C

/ Electrical Characteristic Curve

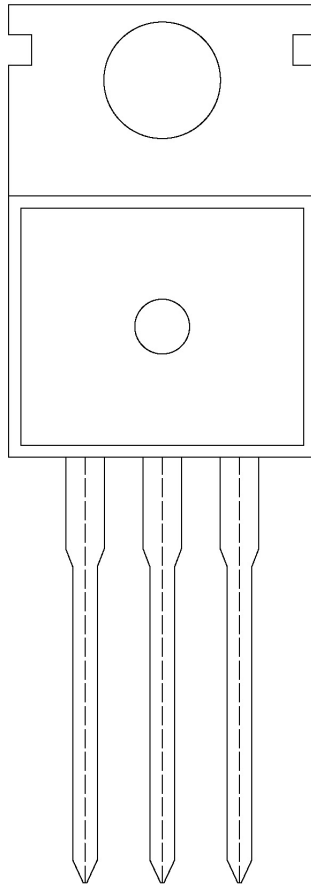


/ Package Dimensions



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	9.8	16.2	C	1.2	1.4
B	3.56	3.64	B1	6.3	6.7
B1	15.7	16.1	C1	0.4	0.6
C	1.2	1.4	a	0.2	1.25
C1	0.4	0.6	a1	1.25	1.45
a	0.2	1.25	b1	1.25	1.45
a1	1.25	1.45	k	1.25	1.45
b1	1.25	1.45	l	1.25	1.45
k	1.25	1.45	m	1.25	1.45
l	1.25	1.45	n	1.25	1.45
m	1.25	1.45	p	1.25	1.45
n	1.25	1.45	q	1.25	1.45
p	1.25	1.45	r	1.25	1.45
q	1.25	1.45	s	1.25	1.45
r	1.25	1.45	t	1.25	1.45
s	1.25	1.45	u	1.25	1.45
t	1.25	1.45	v	1.25	1.45
u	1.25	1.45	w	1.25	1.45
v	1.25	1.45	x	1.25	1.45
w	1.25	1.45	y	1.25	1.45
x	1.25	1.45	z	1.25	1.45
y	1.25	1.45			
z	1.25	1.45			

/ Marking Instructions

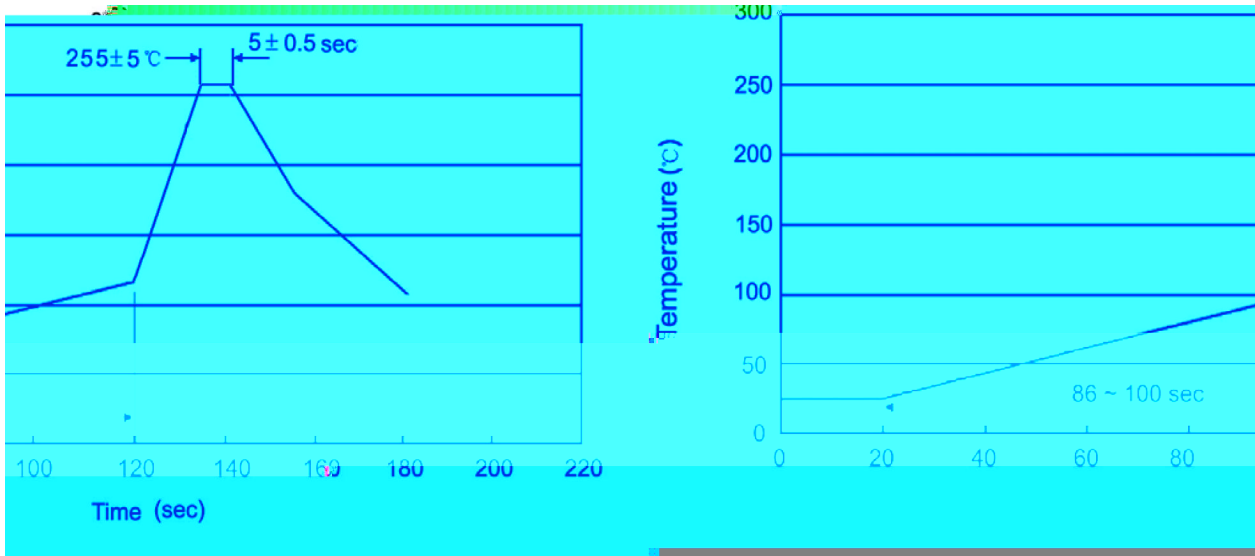


BR

TIP32

\*\*\*\*

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



± ± ± ±

/ Resistance to Soldering Heat Test Conditions

± ± °C

/ Packaging SPEC.

封装形式	包装数量					包装尺寸 :		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

封装形式	包装数量					包装尺寸 :		
	只套管	套管盒	只盒	盒箱	只箱	套管	盒	箱

/ Notices