TIP32

Rev. H Oct.-2018

DATA SHEET

/ Descriptions

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

/ Features

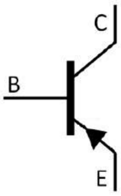
TIP31

Complement to TIP31.

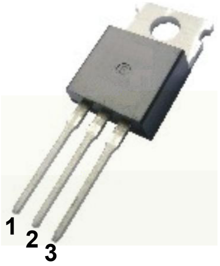
/ Applications

Medium power linear switching applications.

/ Equivalent Circuit



/ Pinning



PIN1	Base	PIN 2	Collector	PIN 3	Emitter

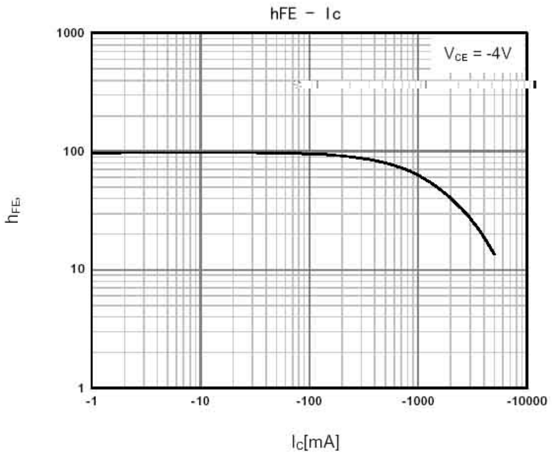
/ h_{FE} Classifications & Marking

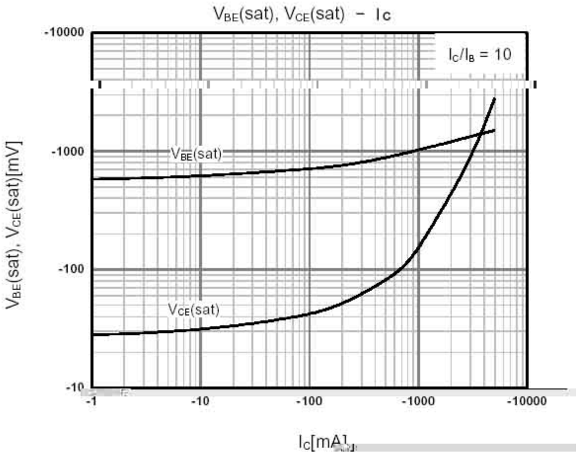
See Marking Instructions.

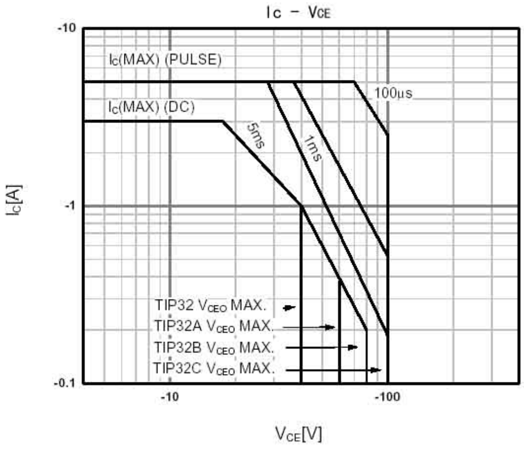
Parameter	Symbol	Rating				Unit
		TIP32	TIP32A	TIP32B	TIP32C	
Collector to Base Voltage	V_{CBO}	-40	-60	-80	-100	V
Collector to Emitter Voltage	V_{CEO}	-40	-60	-80	-100	V
Emitter to Base Voltage	V_{EBO}	-5.0				V
Collector Current-Continuous	I_C	-3.0				A
Peak Collector Current	I_{CP}	-5.0				A
Base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

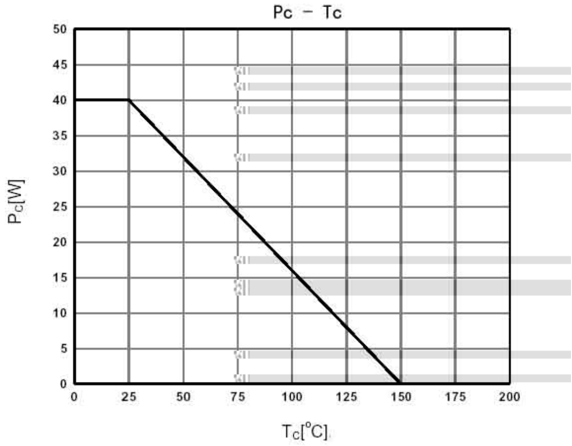
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit

/ Electrical Characteristic Curve



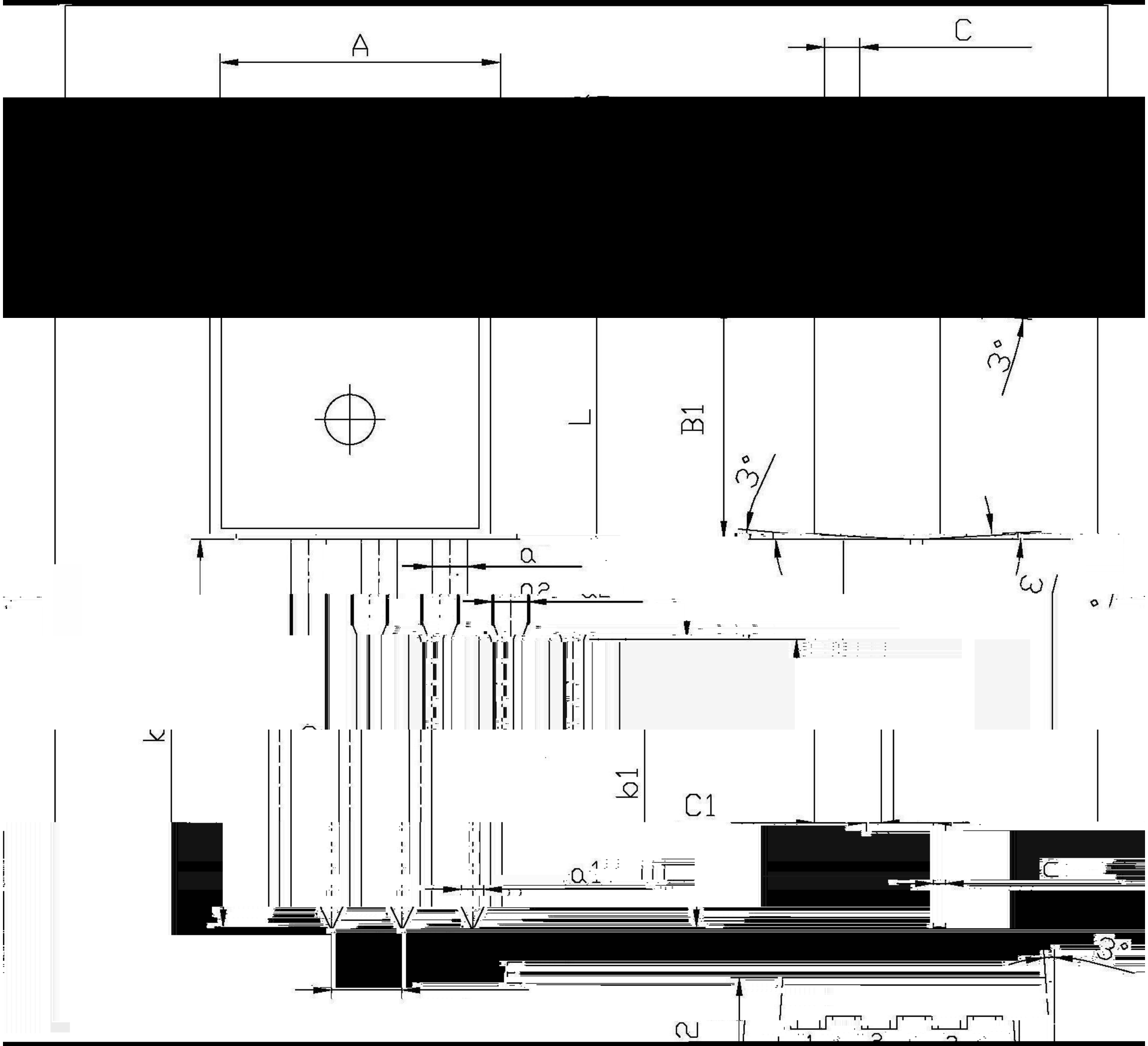






/ Package Dimensions

TO-220 单位：mm

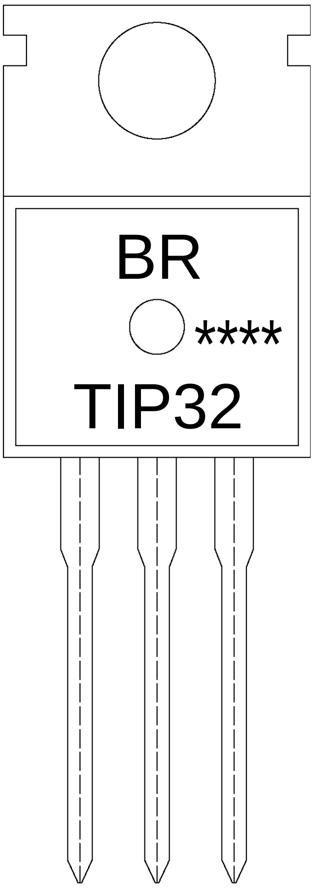


[redacted]

[redacted]

Symbol	Dimensions In Millimeters Min	Dimensions In Millimeters Max	Symbol	Dimensions In Millimeters Min	Dimensions In Millimeters Max
A	9.8	10.2	C	1.2	1.4
R	3.56	3.64	B	6.3	6.7
[illegible]	16.1	[illegible]	B1	9.0	9.4
[illegible]	15.7	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	13.6	[illegible]	C1	2.2	2.6
[illegible]	10.6	[illegible]	a1	0.7	0.9
[illegible]	1.32	[illegible]	c	0.4	0.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.25	1.45	[illegible]	[illegible]	[illegible]

/ Marking Instructions



BR

TIP32

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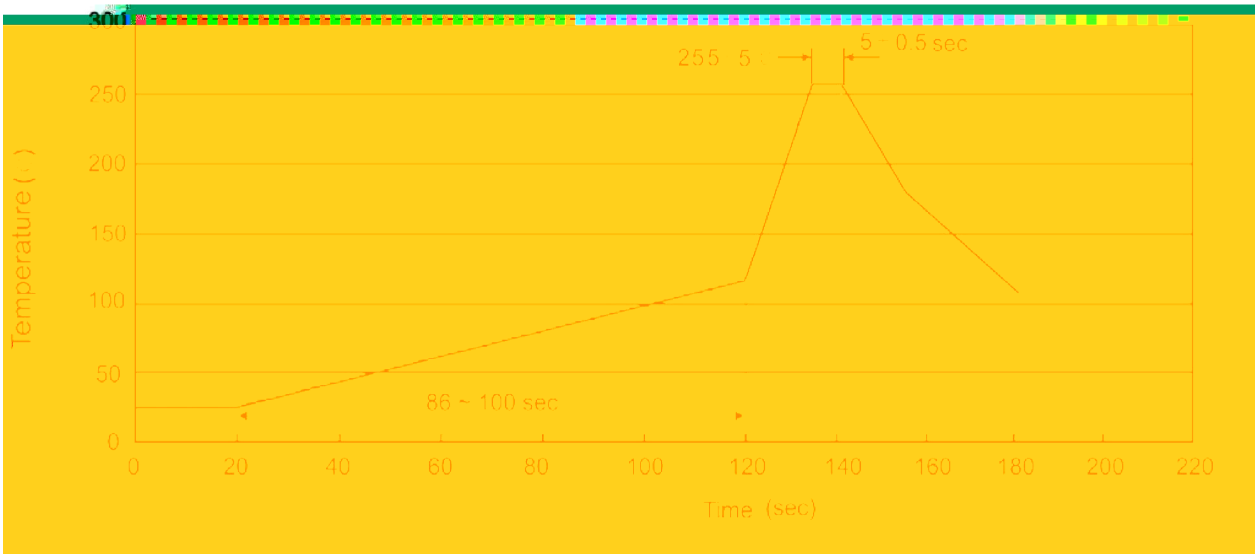
Note:

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;

2 255±5 5±0.5sec;

3 2 10 /sec.

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

2.Peak Temp.:255±5 , Duration:5±0.5sec.

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)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices