

TIP32

Rev. H Oct.-2018

/ Descriptions

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

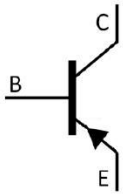
/ Features

TIP31
Complement to TIP31.

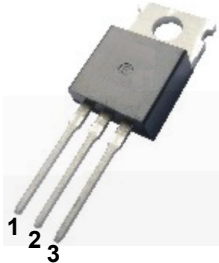
/ Applications

Medium power linear switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

See Marking Instructions.

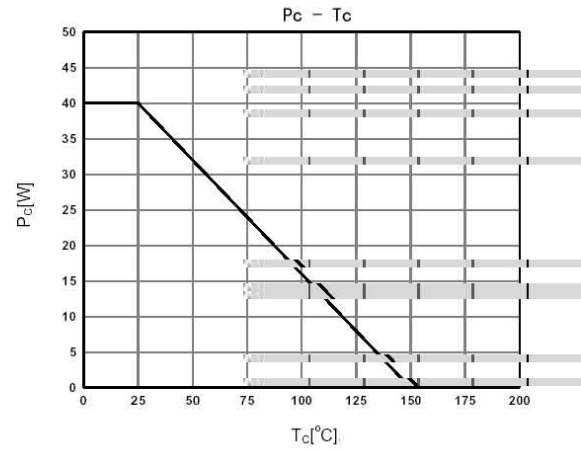
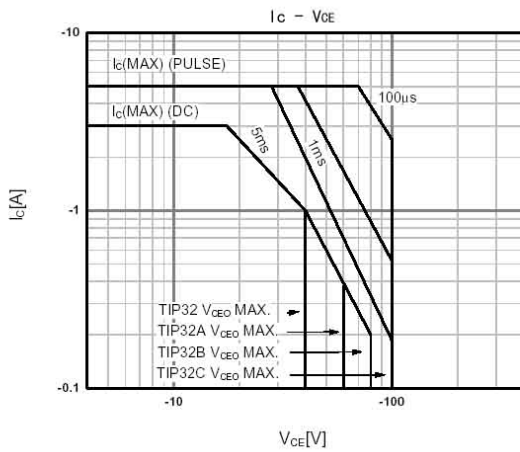
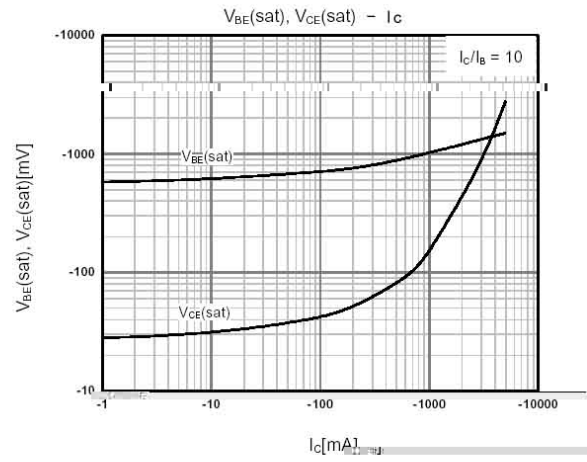
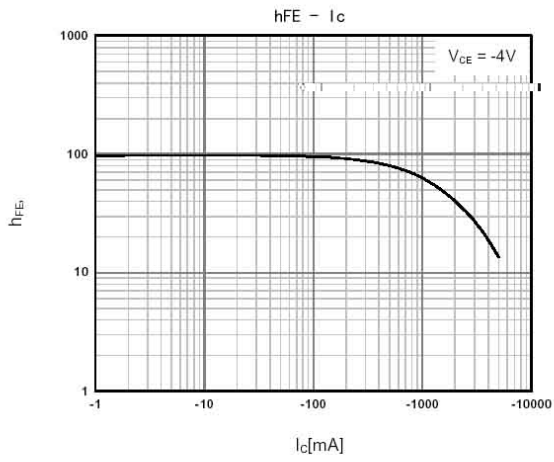
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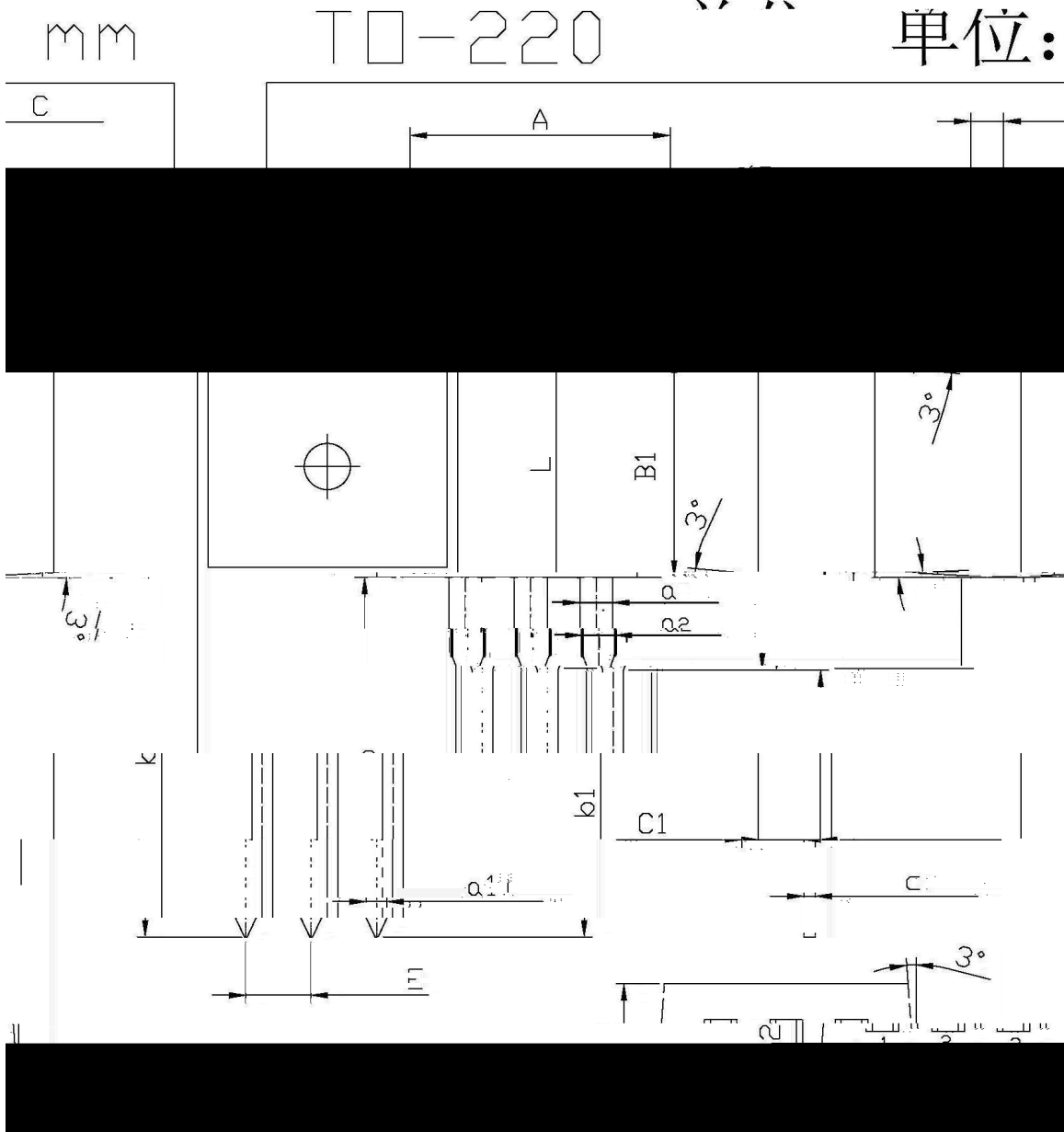
Parameter	Symbol	Rating				Unit
		TIP32	TIP32A	TIP32B	TIP32C	
Collector to Base Voltage	V_{CBO}	-40	-60	-80	-100	V
Collector to Emitter Voltage	V_{CEO}	-40	-60	-80	-100	V
Emitter to Base Voltage	V_{EBO}	-5.0				V
Collector Current-Continuous	I_C	-3.0				A
Peak Collector Current	I_{CP}	-5.0				A
Base 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_{sag}	-55~150				$^\circ\text{C}$

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

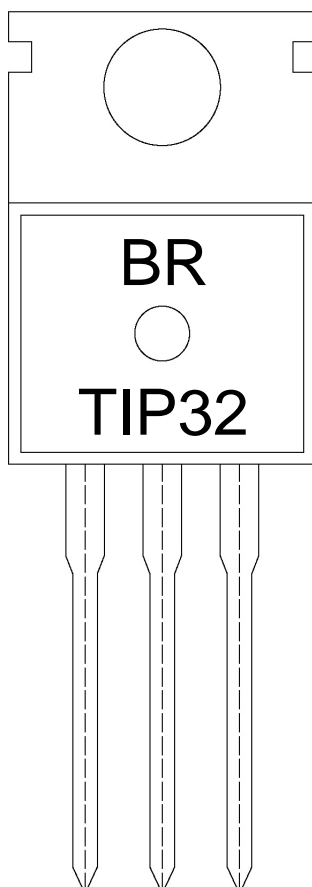


/ Package Dimensions



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	9.8	10.2	C	1.2	1.4
R	3.56	3.64	B	6.3	6.7
B1	9.0	9.4	b	15.7	16.1
C1	2.2	2.6	h1	12.6	13.6
n1	0.7	0.9	h2	9.6	10.6
C	0.4	0.6	a	1.22	1.32
n2	0.7	0.9	n3	0.7	0.9
n3	0.7	0.9	n4	0.7	0.9
n4	0.7	0.9	n5	0.7	0.9
n5	0.7	0.9	n6	0.7	0.9
n6	0.7	0.9	n7	0.7	0.9
n7	0.7	0.9	n8	0.7	0.9
n8	0.7	0.9	n9	0.7	0.9
n9	0.7	0.9	n10	0.7	0.9
n10	0.7	0.9	n11	0.7	0.9
n11	0.7	0.9	n12	0.7	0.9
n12	0.7	0.9	n13	0.7	0.9
n13	0.7	0.9	n14	0.7	0.9
n14	0.7	0.9	n15	0.7	0.9
n15	0.7	0.9	n16	0.7	0.9
n16	0.7	0.9	n17	0.7	0.9
n17	0.7	0.9	n18	0.7	0.9
n18	0.7	0.9	n19	0.7	0.9
n19	0.7	0.9	n20	0.7	0.9
n20	0.7	0.9	n21	0.7	0.9
n21	0.7	0.9	n22	0.7	0.9
n22	0.7	0.9	n23	0.7	0.9
n23	0.7	0.9	n24	0.7	0.9
n24	0.7	0.9	n25	0.7	0.9
n25	0.7	0.9	n26	0.7	0.9
n26	0.7	0.9	n27	0.7	0.9
n27	0.7	0.9	n28	0.7	0.9
n28	0.7	0.9	n29	0.7	0.9
n29	0.7	0.9	n30	0.7	0.9
n30	0.7	0.9	n31	0.7	0.9
n31	0.7	0.9	n32	0.7	0.9
n32	0.7	0.9	n33	0.7	0.9
n33	0.7	0.9	n34	0.7	0.9
n34	0.7	0.9	n35	0.7	0.9
n35	0.7	0.9	n36	0.7	0.9
n36	0.7	0.9	n37	0.7	0.9
n37	0.7	0.9	n38	0.7	0.9
n38	0.7	0.9	n39	0.7	0.9
n39	0.7	0.9	n40	0.7	0.9
n40	0.7	0.9	n41	0.7	0.9
n41	0.7	0.9	n42	0.7	0.9
n42	0.7	0.9	n43	0.7	0.9
n43	0.7	0.9	n44	0.7	0.9
n44	0.7	0.9	n45	0.7	0.9
n45	0.7	0.9	n46	0.7	0.9
n46	0.7	0.9	n47	0.7	0.9
n47	0.7	0.9	n48	0.7	0.9
n48	0.7	0.9	n49	0.7	0.9
n49	0.7	0.9	n50	0.7	0.9
n50	0.7	0.9	n51	0.7	0.9
n51	0.7	0.9	n52	0.7	0.9
n52	0.7	0.9	n53	0.7	0.9
n53	0.7	0.9	n54	0.7	0.9
n54	0.7	0.9	n55	0.7	0.9
n55	0.7	0.9	n56	0.7	0.9
n56	0.7	0.9	n57	0.7	0.9
n57	0.7	0.9	n58	0.7	0.9
n58	0.7	0.9	n59	0.7	0.9
n59	0.7	0.9	n60	0.7	0.9
n60	0.7	0.9	n61	0.7	0.9
n61	0.7	0.9	n62	0.7	0.9
n62	0.7	0.9	n63	0.7	0.9
n63	0.7	0.9	n64	0.7	0.9
n64	0.7	0.9	n65	0.7	0.9
n65	0.7	0.9	n66	0.7	0.9
n66	0.7	0.9	n67	0.7	0.9
n67	0.7	0.9	n68	0.7	0.9
n68	0.7	0.9	n69	0.7	0.9
n69	0.7	0.9	n70	0.7	0.9
n70	0.7	0.9	n71	0.7	0.9
n71	0.7	0.9	n72	0.7	0.9
n72	0.7	0.9	n73	0.7	0.9
n73	0.7	0.9	n74	0.7	0.9
n74	0.7	0.9	n75	0.7	0.9
n75	0.7	0.9	n76	0.7	0.9
n76	0.7	0.9	n77	0.7	0.9
n77	0.7	0.9	n78	0.7	0.9
n78	0.7	0.9	n79	0.7	0.9
n79	0.7	0.9	n80	0.7	0.9
n80	0.7	0.9	n81	0.7	0.9
n81	0.7	0.9	n82	0.7	0.9
n82	0.7	0.9	n83	0.7	0.9
n83	0.7	0.9	n84	0.7	0.9
n84	0.7	0.9	n85	0.7	0.9
n85	0.7	0.9	n86	0.7	0.9
n86	0.7	0.9	n87	0.7	0.9
n87	0.7	0.9	n88	0.7	0.9
n88	0.7	0.9	n89	0.7	0.9
n89	0.7	0.9	n90	0.7	0.9
n90	0.7	0.9	n91	0.7	0.9
n91	0.7	0.9	n92	0.7	0.9
n92	0.7	0.9	n93	0.7	0.9
n93	0.7	0.9	n94	0.7	0.9
n94	0.7	0.9	n95	0.7	0.9
n95	0.7	0.9	n96	0.7	0.9
n96	0.7	0.9	n97	0.7	0.9
n97	0.7	0.9	n98	0.7	0.9
n98	0.7	0.9	n99	0.7	0.9
n99	0.7	0.9	n100	0.7	0.9

/ Marking Instructions



BR

TIP32

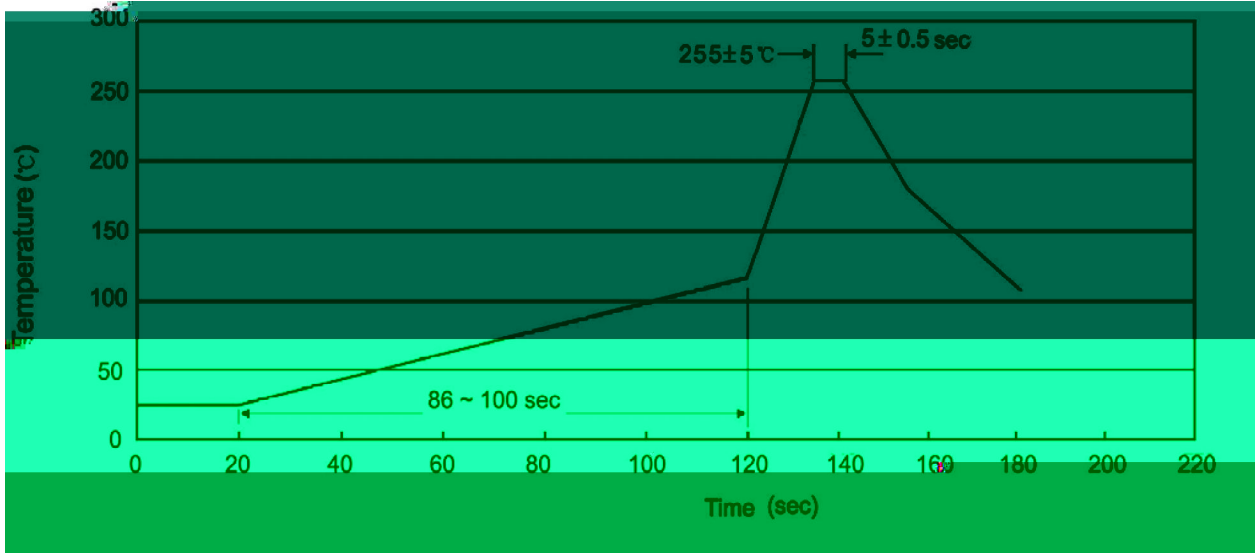
Note:

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°C 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