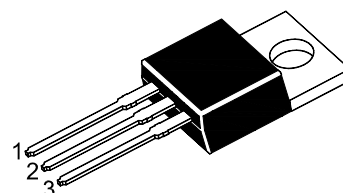


ST TIP32C

PNP Silicon Epitaxial Planar Transistor

for power switching and amplifier applications



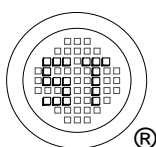
1.Base 2.Collector 3.Emitter
TO-220 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

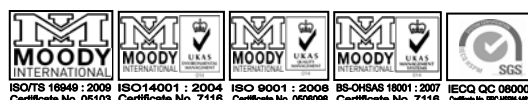
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	100	V
Collector Emitter Voltage	$-V_{CEO}$	100	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	3	A
Collector Current (Pulse)	$-I_{CP}$	5	A
Base Current	$-I_B$	1	A
Power Dissipation ($T_a = 25\text{ }^\circ\text{C}$)	P_{tot}	2	W
Power Dissipation ($T_c = 25\text{ }^\circ\text{C}$)	P_{tot}	40	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $-V_{CE} = 4\text{ V}$, $-I_C = 1\text{ A}$ at $-V_{CE} = 4\text{ V}$, $-I_C = 3\text{ A}$	h_{FE} h_{FE}	25 10	- 50	- -
Collector Emitter Sustaining Voltage at $-I_C = 30\text{ mA}$	$-V_{CEO(sus)}$	100	-	V
Collector Cutoff Current at $-V_{CE} = 100\text{ V}$	$-I_{CES}$	-	0.2	mA
Collector Cutoff Current at $-V_{CE} = 60\text{ V}$	$-I_{CEO}$	-	0.3	mA
Emitter Cutoff Current at $-V_{EB} = 5\text{ V}$	$-I_{EBO}$	-	1	mA
Collector Emitter Saturation Voltage at $-I_C = 3\text{ A}$, $-I_B = 375\text{ mA}$	$-V_{CE(sat)}$	-	1.2	V
Base Emitter On Voltage at $-V_{CE} = 4\text{ V}$, $-I_C = 3\text{ A}$	$-V_{BE(on)}$	-	1.8	V
Transition Frequency at $-V_{CE} = 10\text{ V}$, $-I_C = 500\text{ mA}$, $f = 1\text{ MHz}$	f_T	3	-	MHz

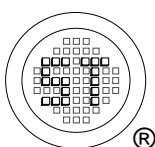
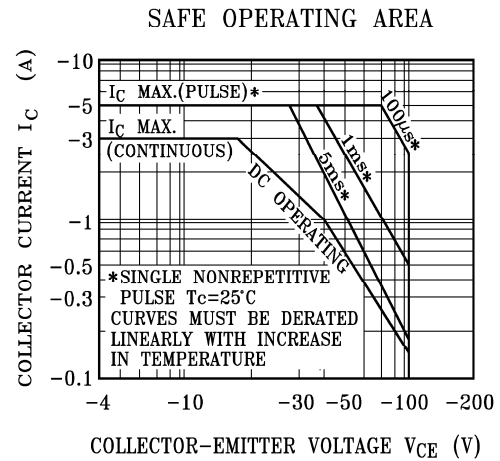
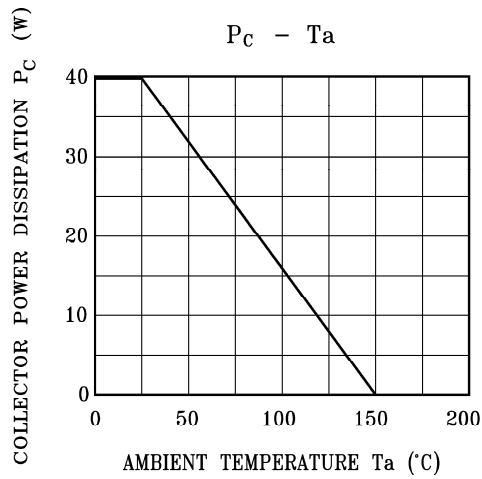
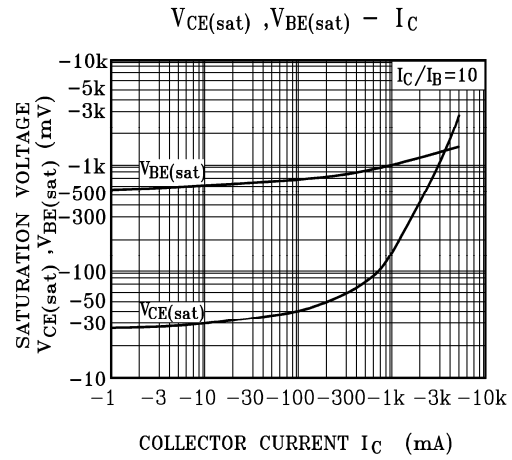
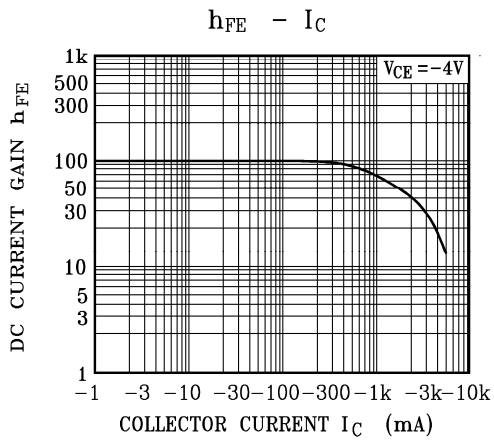


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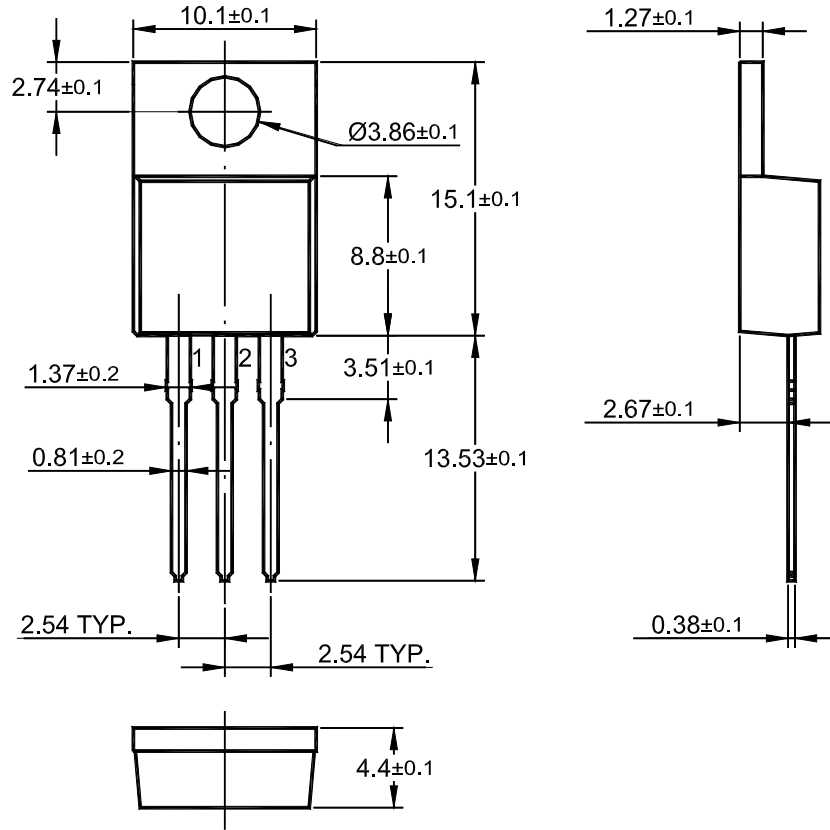


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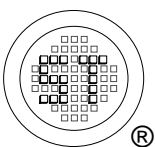


ST TIP32C

TO-220 PACKAGE OUTLINE



Dimensions in mm



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