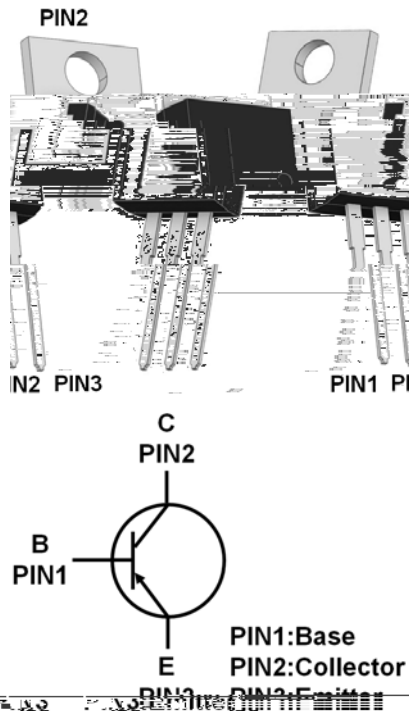


## PNP Silicon Power Transistors



### Features

Epoxy Meets UL 94 V-0 Flammability Rating  
Halogen Free

### Applications

Complement to TIP41C  
High switching speed

### Mechanical Data

Package: TO-220AB  
Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102  
Unit Weight: 1.9g

### Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Value
Device marking code			TIP42C
Collector-base voltage	$V_{CBO}$	V	-100
Collector-emitter voltage	$V_{CEO}$	V	-100
Emitter-base voltage	$V_{EBO}$	V	-5
Collector current	$I_C$	A	-6
Power dissipation	$P_D$	W	2
Thermal resistance, junction-to-ambient (Note1)	$R_{thJA}$	/W	62.5
Junction temperature	$T_j$		-55 to +150
Storage temperature	$T_{STG}$		-55 to +150

Note1 Device mounted on PCB with minimum recommended pad layout and additional heat sink (25mm x 23mm x 15mm) attached.



# TIP42C

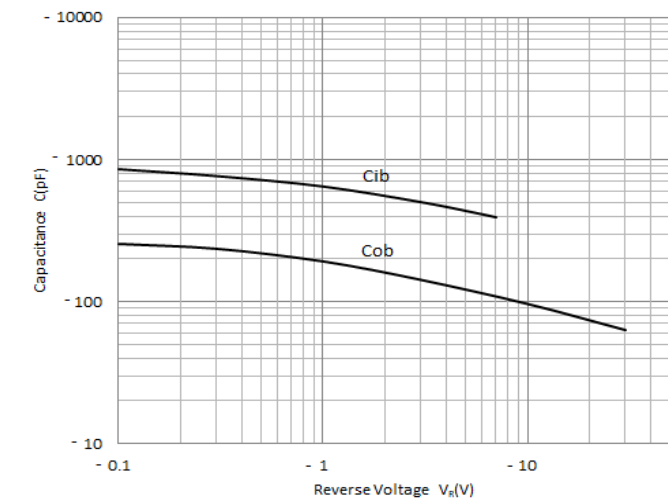
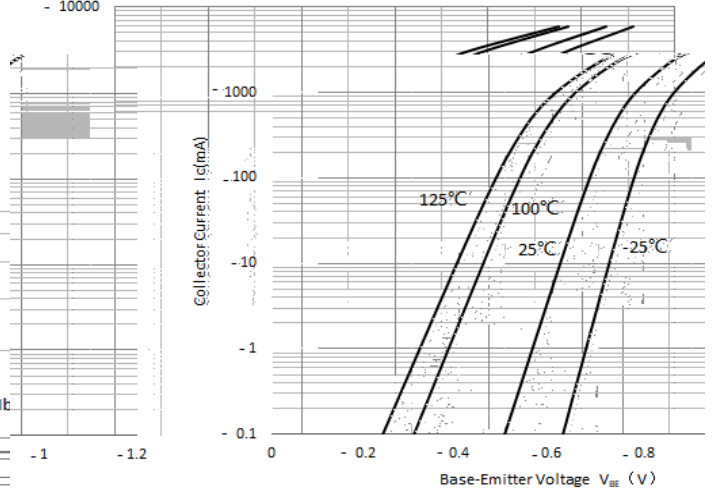
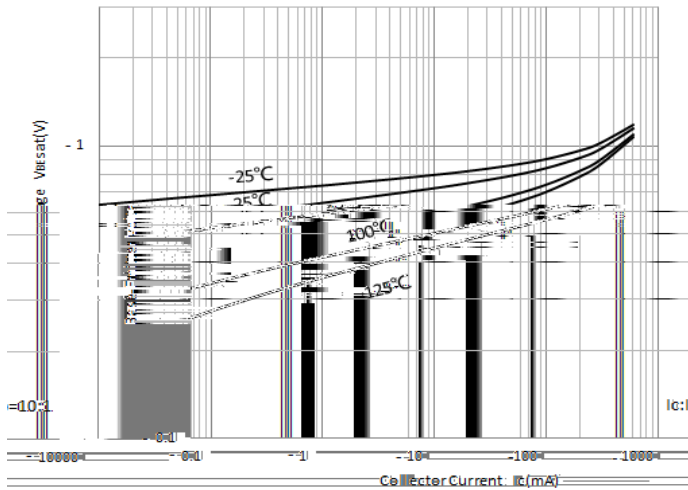
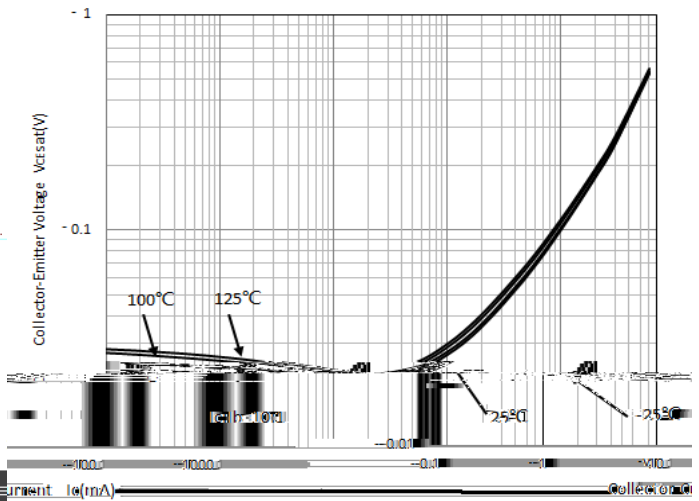
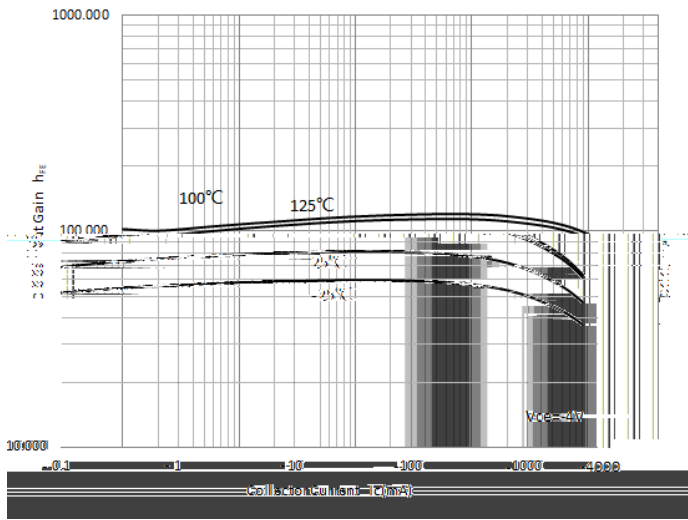
RoHS  
COMPLIANT

## Electrical Characteristics (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	$I_C = -100\mu A, I_E = 0$	-100		



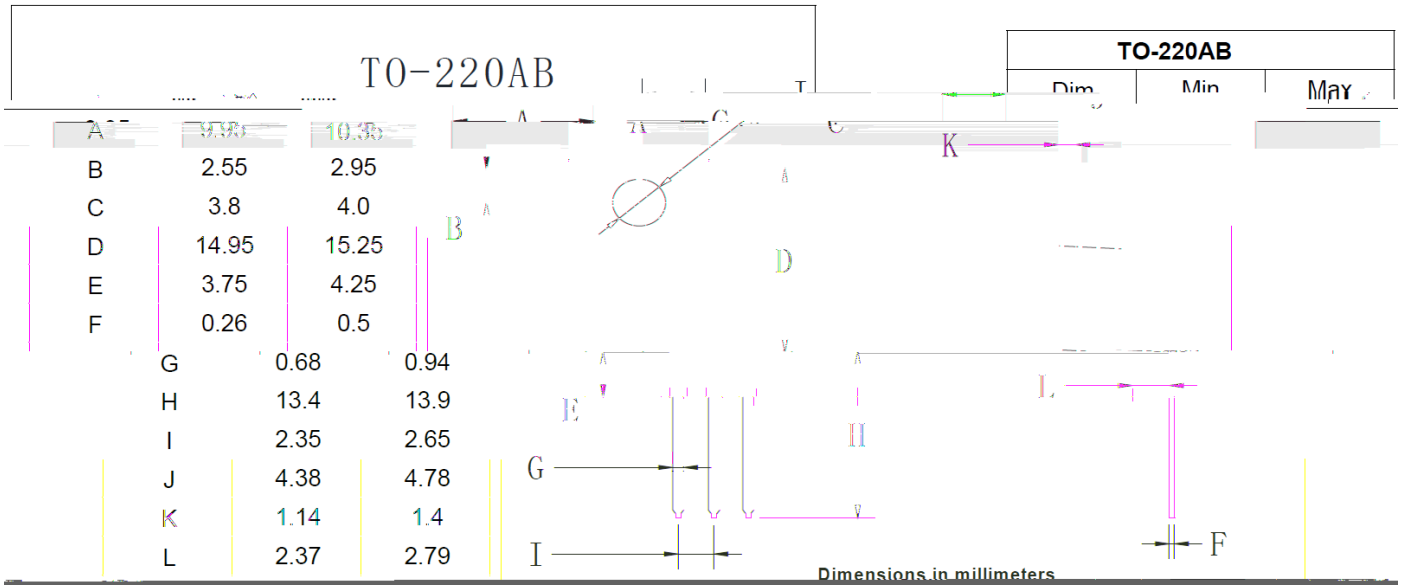
Characteristics(Typical)



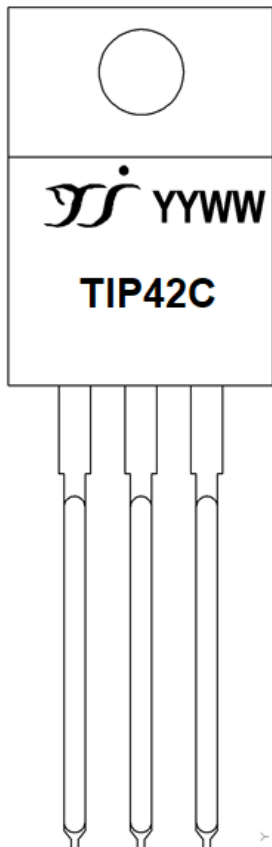
### Ordering Information (Example)

PREFERED P/N	PACKING CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
TIP42C	B1	50/Tube	1000	2000	Tube

### TO-220AB Package information



### Marking code



Yangjie LOGO  
 YYWW YY, years; WW, week.  
 For example, 24 represents 2024; 01 represents the first week of this year.  
 TIP42C: Product model.



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## Disclaimer

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