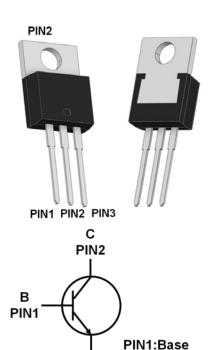






NPN Silicon Power Transistors



E PIN3

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free

Applications

- Complement to TIP42C
- High switching speed

Mechanical Data

• Package: TO-220AB

• Terminals: Tin plated leads, solderable per J-STD-002

and JESD22-B102Unit Weight: 1.9g

■ Maximum Ratings (Ta=25°C unless otherwise noted)

PIN2:Collector

PIN3:Emitter

Item	Symbol	Unit	Value
Device marking code			TIP41C
Collector-base voltage	V_{CBO}	V	100
Collector-emitter voltage	V _{CEO}	V	100
Emitter-base voltage	V _{EBO}	V	5
Collector current	Ic	А	6
Power dissipation	P _D	W	2
Thermal resistance, junction-to-ambient (Note1)	R_{thJA}	°C/W	62.5
Junction temperature	Tj	°C	-55 to +150
Storage temperature	T_{STG}	°C	-55 to +150

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



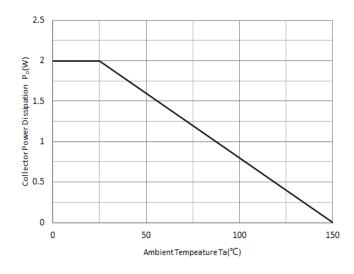
TIP41C

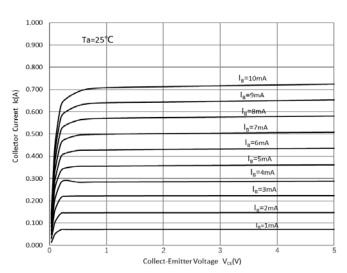


■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	I _C = 100uA, I _E =0	100		
Collector-emitter breakdown voltage	V _{(BR)CEO}	V	I _C = 30mA, I _B =0	100		
Emitter-base breakdown voltage	V _{(BR)EBO}	V	I _E = 1mA, I _C =0	5		
Collector-base cut-off current	I _{CBO}	mA	V _{CB} =100V			0.1
Collector cutoff current	I _{CEO}	mA	V _{CE} =60V			0.7
Emitter-base cut-off current	I _{EBO}	mA	V _{EB} =5V			1
DC current gain	h _{FE}		V _{CE} = 4V, I _C = 0.3A	30		
			V _{CE} = 4V, I _C = 3A	15		75
Collector-emitter saturation voltage	V _{CE(sat)}	V	I _C = 6A, I _B = 0.6A			1.5
Base-Emitter Voltage	V _{BE}	V	V _{CE} = 4V, I _C = 3A			2.0
Collector-base output capacitance	Cob	pF	V _{CB} =10V,I _E =0A,f=1MHz		96	

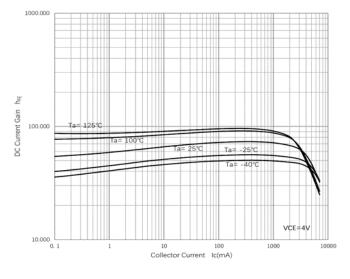
■ Characteristics(Typical)

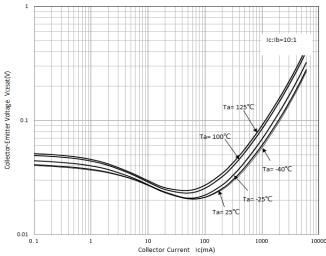


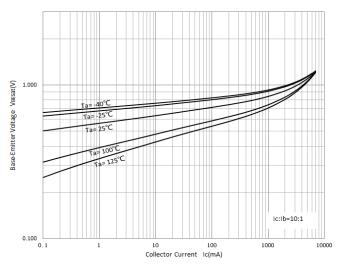


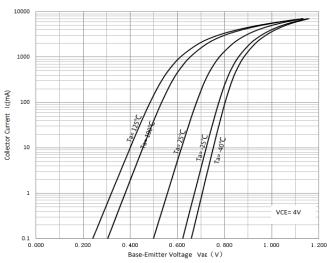


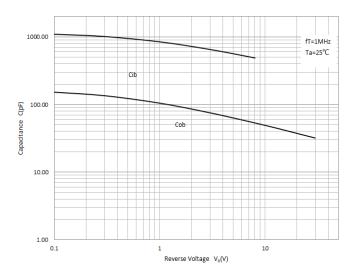












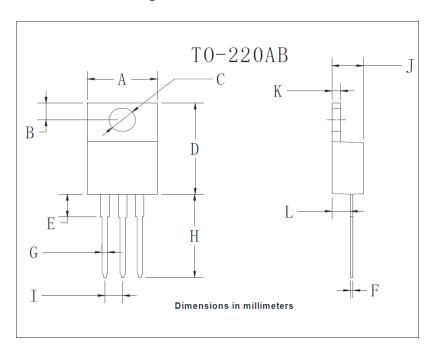




■ Ordering Information (Example)

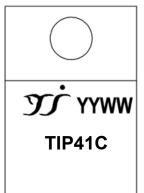
PREFERED P/N	PACKING CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
TIP41C	B1	50/Tube	1000	2000	Tube

■ TO-220AB Package information



TO-220AB				
Dim	Min	Max		
Α	9.95	10.35		
В	2.55	2.95		
С	3.8	4.0		
D	14.95	15.25		
E	3.75	4.25		
F	0.26	0.5		
G	0.68	0.94		
Н	13.4	13.9		
I	2.35	2.65		
J	4.38	4.78		
K	1.14	1.4		
L	2.37	2.79		

■ Marking code

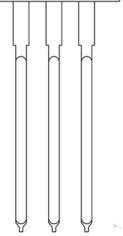


YangJie LOGO

YYWW: YY, years; WW, week.

For example,24 represents 2024; 01 represents the first week of this year.

TIP41C: Product model.





TIP41C



Disclaimer

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