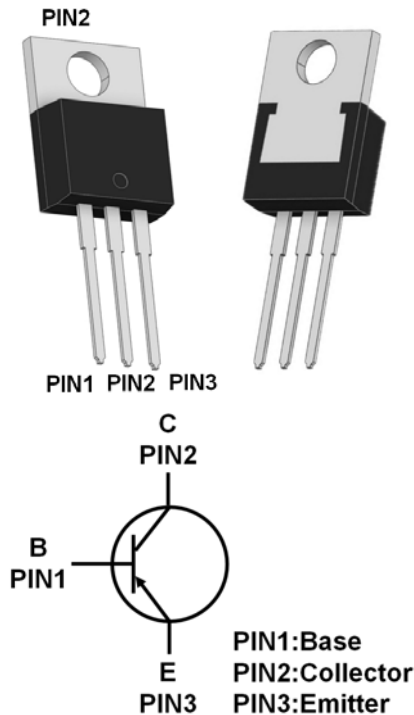


PNP High Power Bipolar Transistor



Features

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

Applications

- Complement to TIP121L
- High DC Current Gain

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°C unless otherwise noted)

Item	Symbol	Unit	Value
Device marking code			TIP126L
Collector-base voltage	V_{CBO}	V	-80
Collector-emitter voltage	V_{CEO}	V	-80
Emitter-base voltage	V_{EBO}	V	-5
Collector current	I_C	A	-5
Power dissipation(Note1)	P_D	W	2
Thermal resistance, junction-to-ambient (°)	R_{thJA}	°C/W	62.5
Junction temperature	T_j	°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.



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

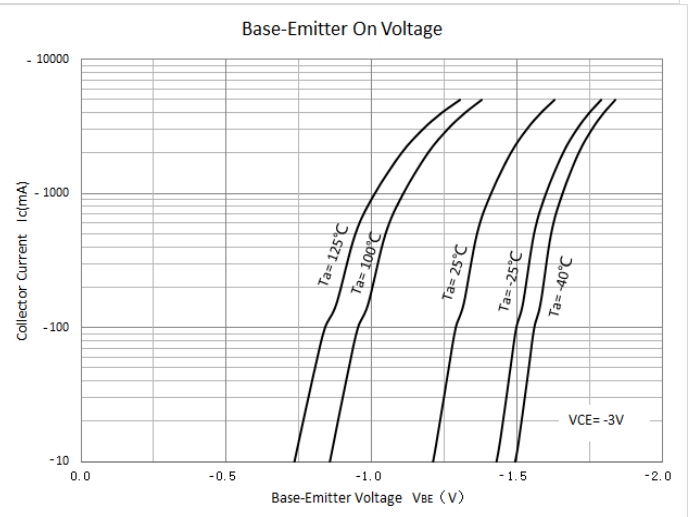
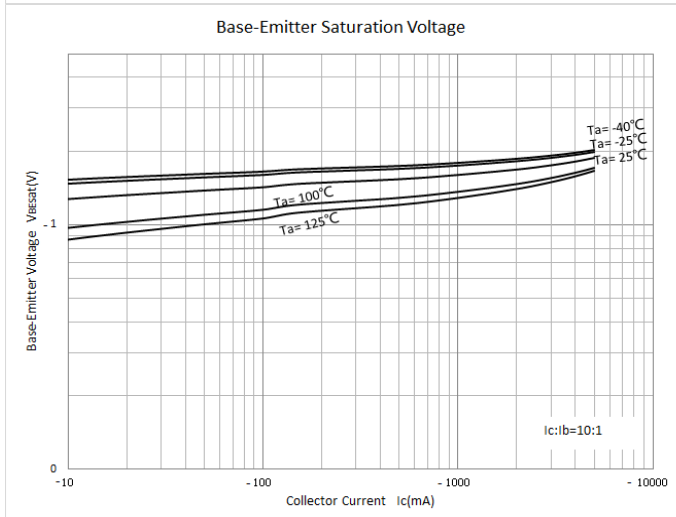
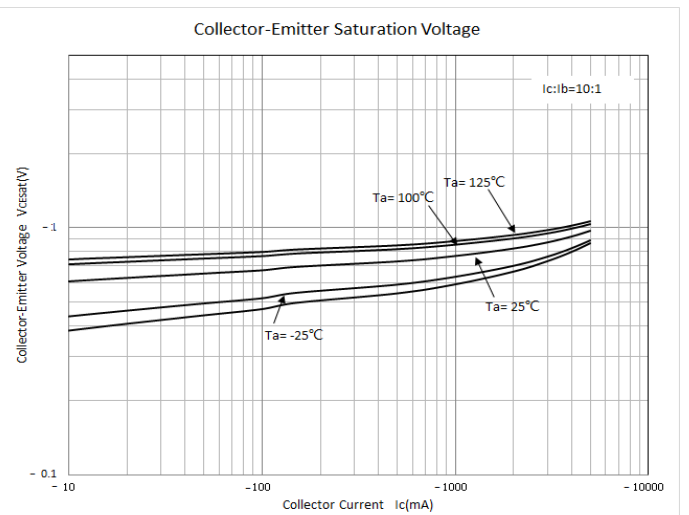
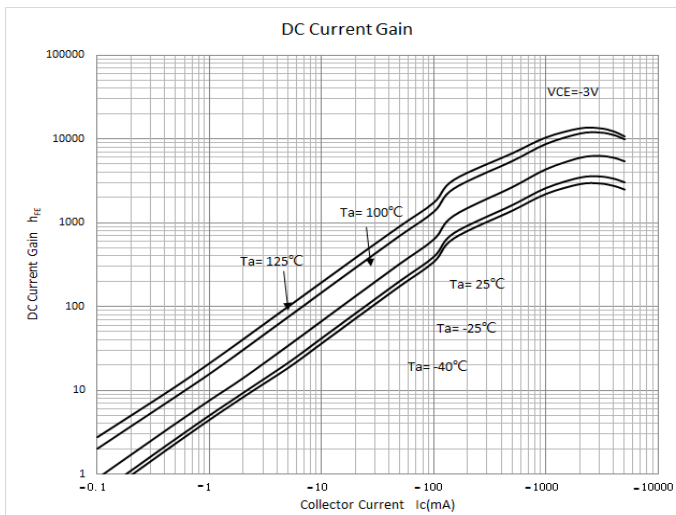
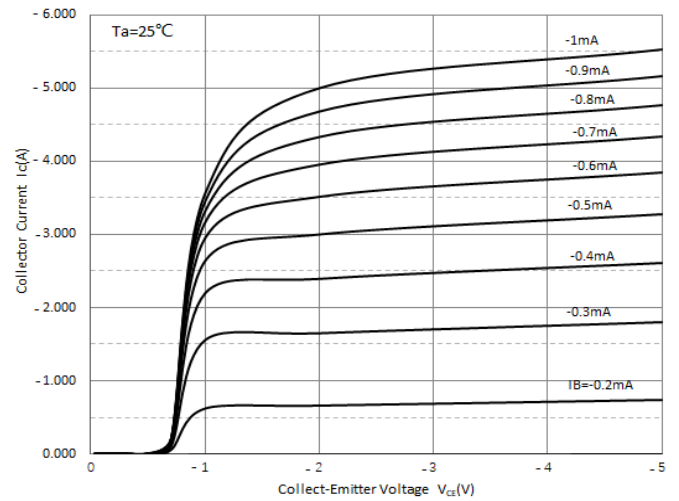
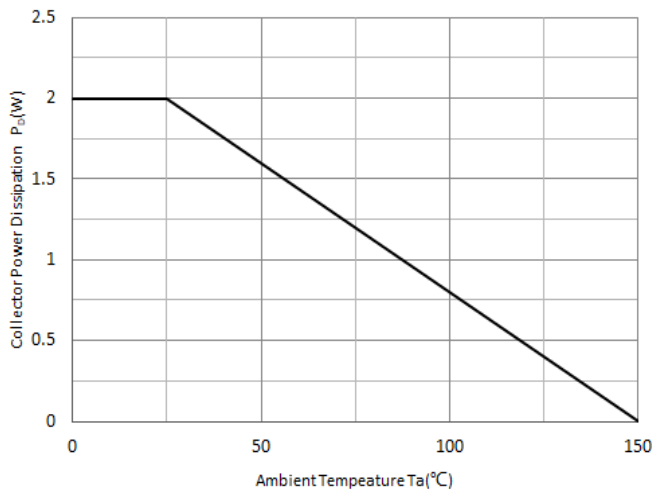
Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	$I_C=-1mA, I_E=0$	-80		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	$I_C=-30mA, I_B=0$	-80		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	$I_E=-2mA, I_C=0$	-5		
Collector-base cut-off current	I_{CBO}	mA	$V_{CB}=-100V$			-0.2
Collector cutoff current	I_{CEO}	mA	$V_{CE}=-30V$			-0.5
Emitter-base cut-off current	I_{EBO}	mA	$V_{EB}=-5V$			-2
DC current gain	h_{FE}		$V_{CE}=-3V, I_C=-0.5A$	1000		
			$V_{CE}=-3V, I_C=-3A$	1000		
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=-3A, I_B=-12mA$			-2.0
			$I_C=-5A, I_B=-20mA$			-4.0
Base-Emitter Voltage	V_{BE}	V	$V_{CE}=-3V, I_C=-3A$			-2.5
Collector-base output capacitance	Cob	pF	$V_{CB}=-10V, I_E=0A, f=1MHz$		88	

■ Ordering Information (Example)

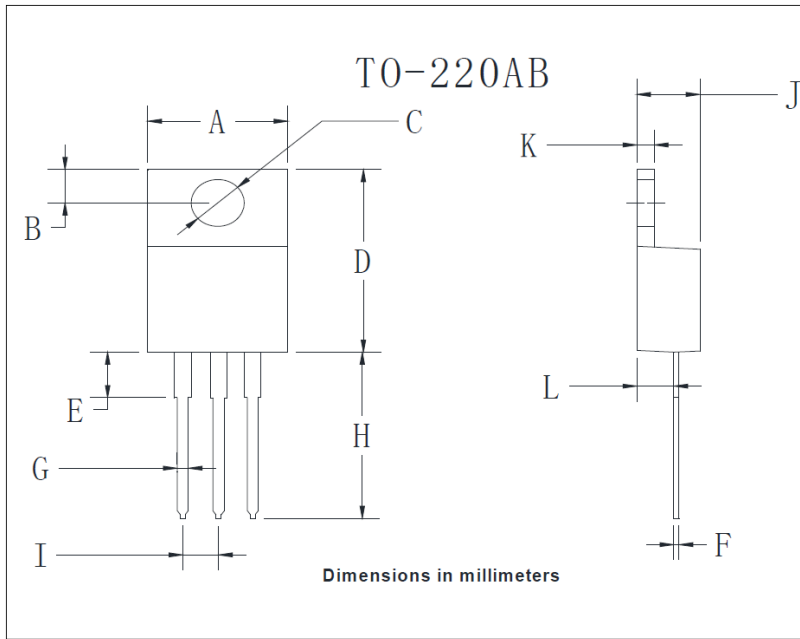
PREFERRED P/N	PACKING CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
TIP126L	B1	50/Tube	1000	5000	Tube



■ Characteristics(Typical)

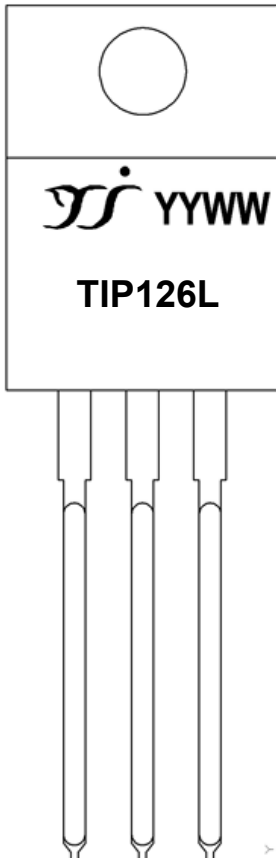


■ TO-220AB Package information



TO-220AB		
Dim	Min	Max
A	9.95	10.35
B	2.55	2.95
C	3.8	4.0
D	14.95	15.25
E	3.75	4.25
F	0.26	0.5
G	0.68	0.94
H	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.

TIP126L: Product model.



Disclaimer

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