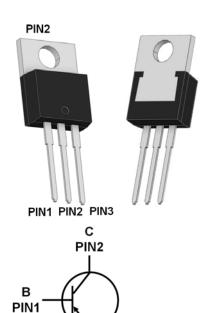






PNP Power Transistors



PIN3

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- High Current Switching Applications
- Low Collector Saturation Voltage

Applications

- Complement to 2SC2562
- 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°C unless otherwise noted)

PIN1:Base PIN2:Collector

PIN3:Emitter

■ Maximum Ratings (1a=25°C unle	Symbol	Unit	Value
Device marking code			2SA1012-Y
Collector-base voltage	V_{CBO}	V	-60
Collector-emitter voltage	V _{CEO}	V	-50
Emitter-base voltage	V_{EBO}	V	-5
Collector current	Ic	А	-5
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.



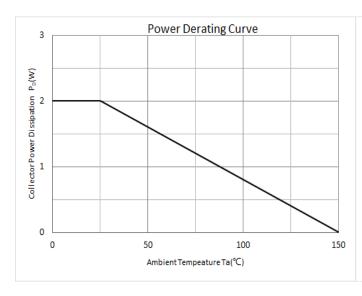
2SA1012-Y

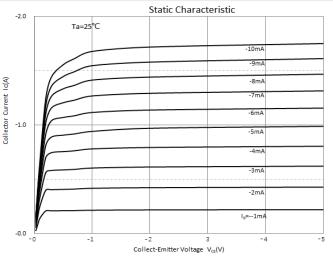


■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	I _C = -0.1mA, I _E =0	-60		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	I _C = -10mA, I _B =0	-50		
Emitter-base breakdown voltage	V _{(BR)EBO}	V	I _E = -100uA, I _C =0	-5		
Collector-base cut-off current	I _{CBO}	uA	V _{CB} =-50V			-1
Emitter-base cut-off current	I _{EBO}	uA	V _{EB} =-5V			-1
DC current gain	h _{FE}		V _{CE} = -1V, I _C = -1A	120		240
			V _{CE} = -1V, I _C = -3A	30		
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	I _C = -3A, I _B = -150mA			-0.4
Base-emitter saturation voltage	$V_{BE(sat)}$	V	I _C = -3A, I _B = -150mA			-1.2
Collector-base output capacitance	Cob	pF	V _{CB} =-10V,I _E =0A,f=1MHz		79	

■ Characteristics(Typical)

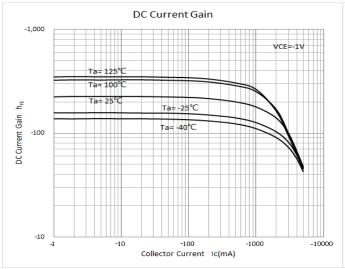


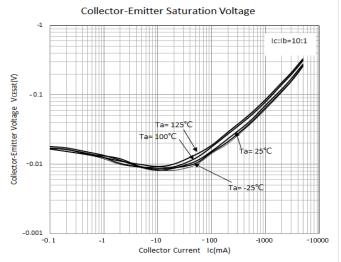


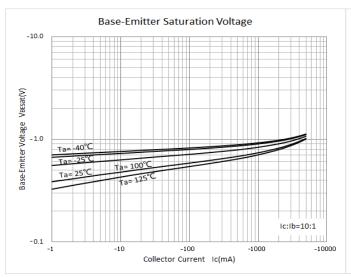


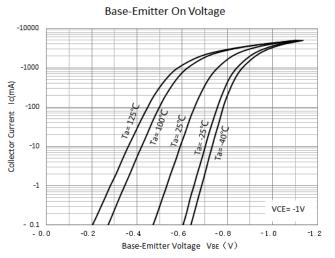


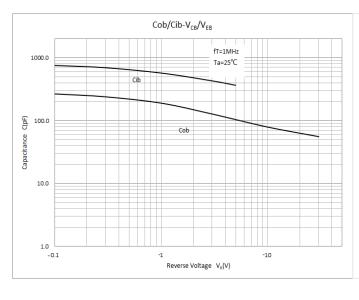


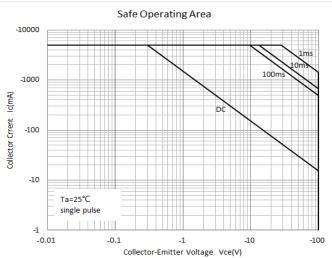












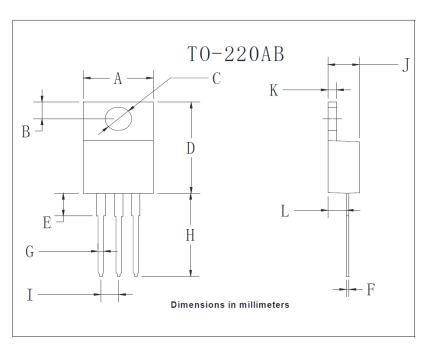




■ Ordering Information (Example)

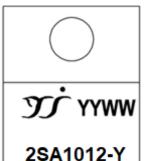
PREFERED P/N	PACKING CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
2SA1012-Y	B1	50/Tube	1000	5000	Tube

■ TO-220AB Package information



TO-220AB				
Dim	Min	Max		
А	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

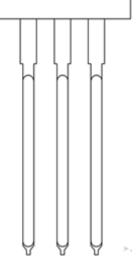


YangJie LOGO

YYWW: YY, years; WW, week.

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

2SA1012-Y: Product model.





2SA1012-Y



Disclaimer

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