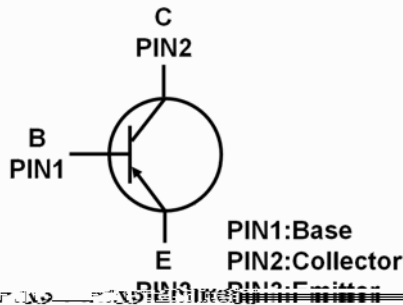
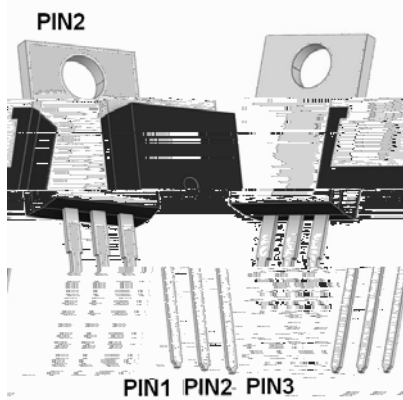


## PNP Power Transistors



### 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 unless otherwise noted)

Item	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	$I_C$	A	-5
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

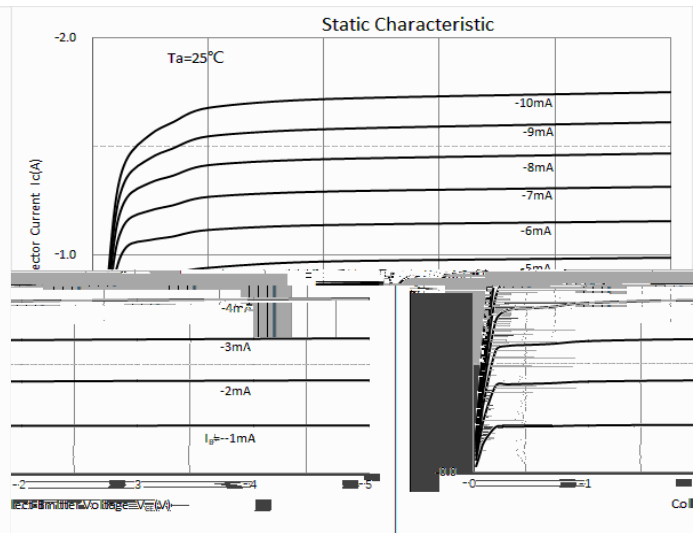
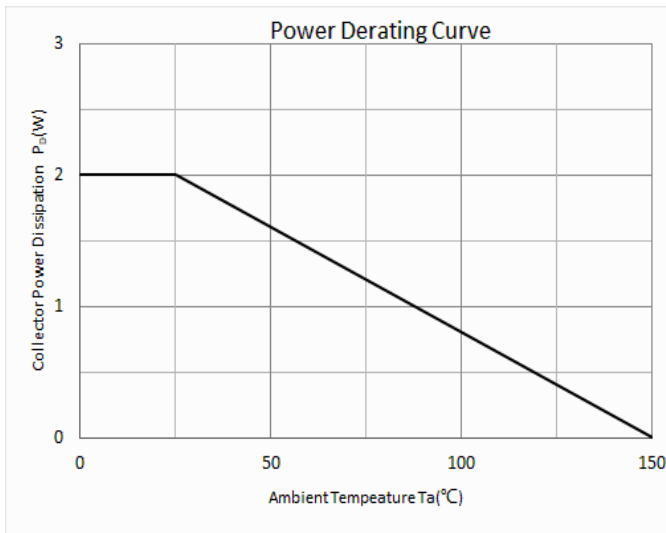
Note1

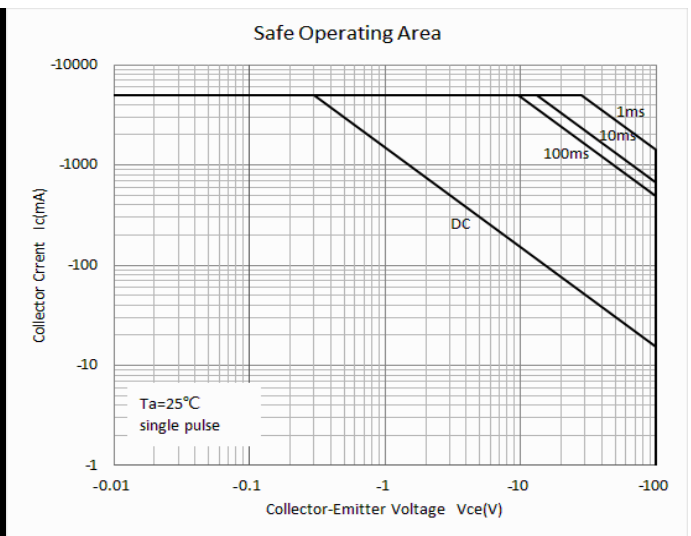
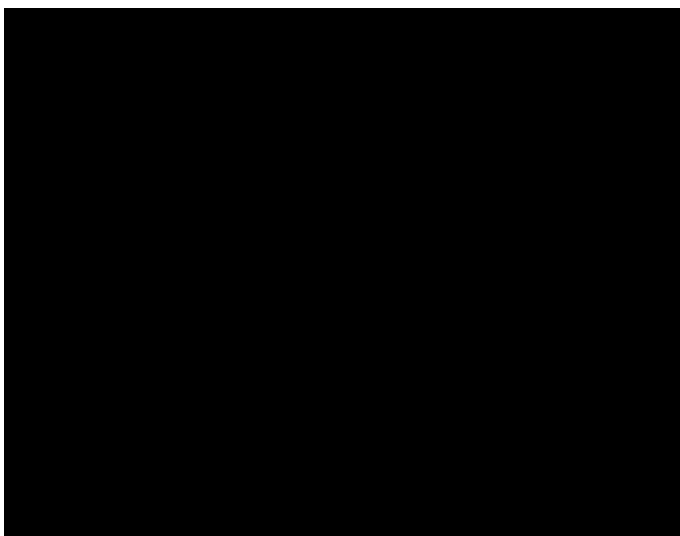
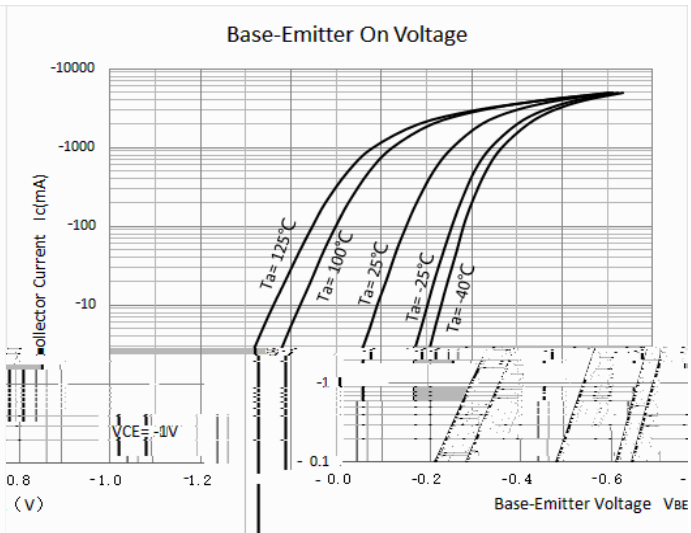
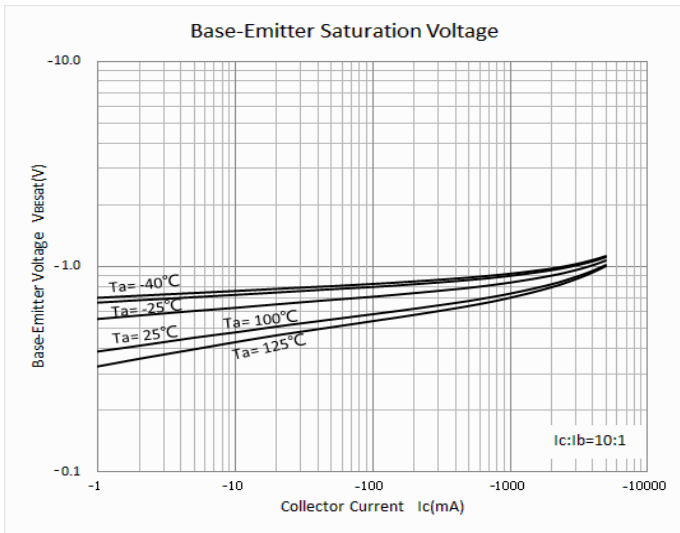
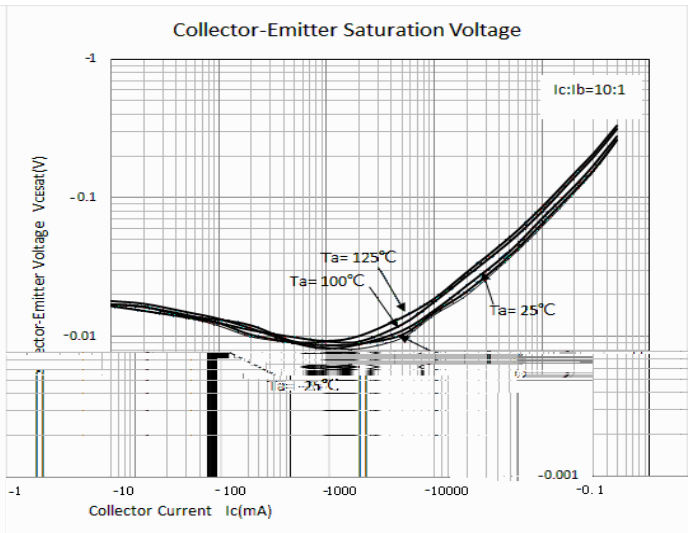
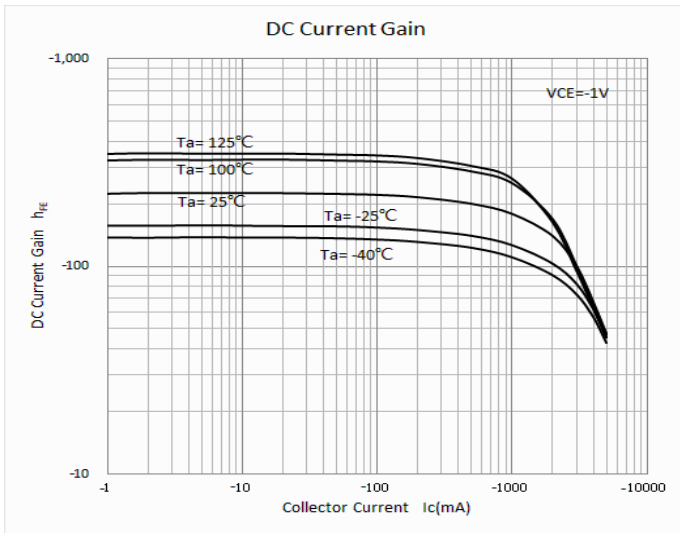


## Electrical Characteristics (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	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	$I_E = -100\mu A, I_C = 0$	-5		
Collector-base cut-off current	$I_{CBO}$	$\mu A$	$V_{CB} = -50V$			-1
Emitter-base cut-off current	$I_{EBO}$	$\mu A$	$V_{EB} = -5V$			-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)



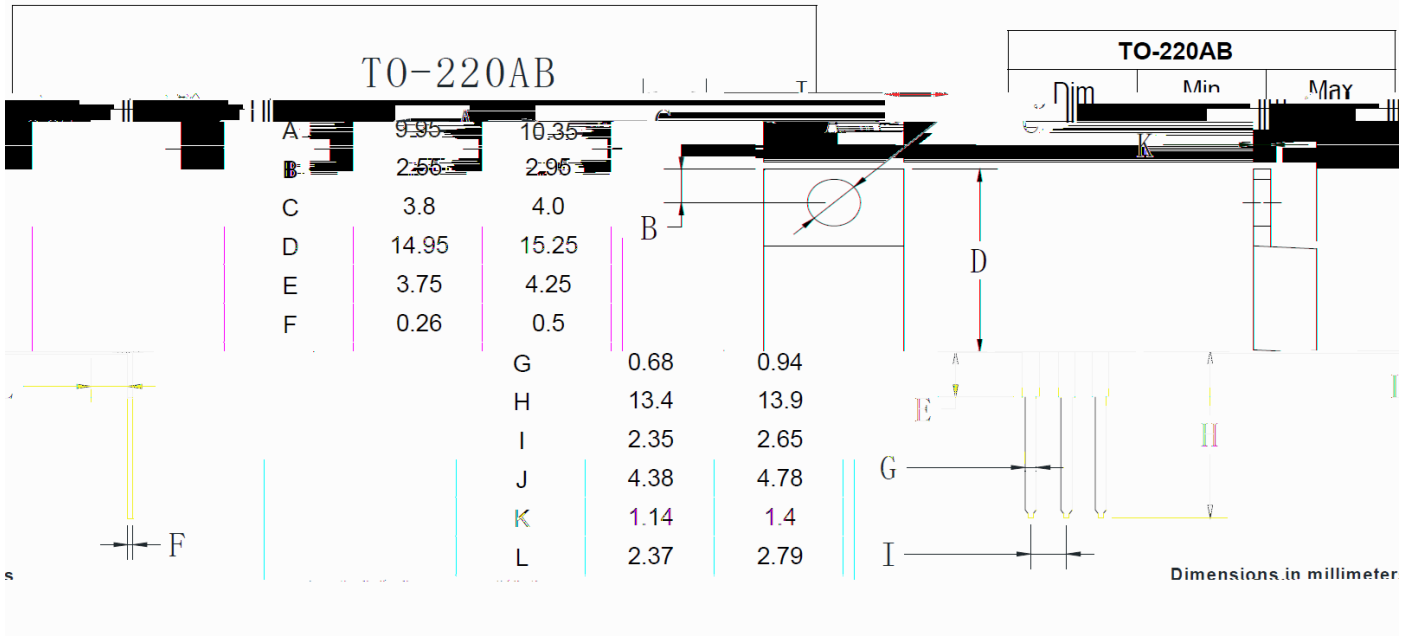




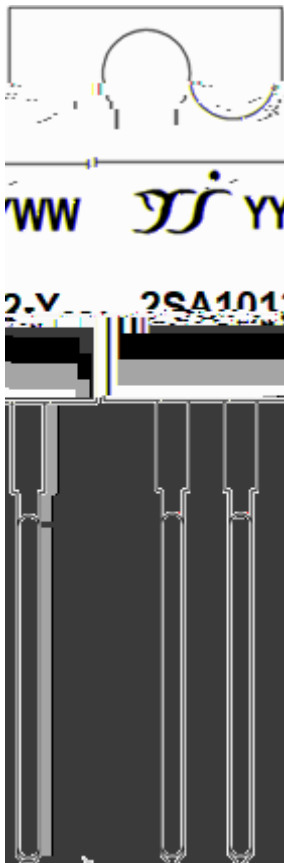
### Ordering Information (Example)

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



### 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.



### Disclaimer

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