

# 2SD468

## NPN Epitaxial Silicon Transistor

### Features

- Low Frequency Power Amplifier.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Complementary pair with 2SB562
- Halogen free available upon request by adding suffix "-HF"

### Maximum Ratings

Symbol	Rating	Rating	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	20	V
V <sub>CBO</sub>	Collector-Base Voltage	25	V
V <sub>EBO</sub>	Emitter-Base Voltage	5.0	V
I <sub>C</sub>	Collector Current	1.0	A
P <sub>C</sub>	Collector power dissipation	0.9	W
T <sub>J</sub>	Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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#### OFF CHARACTERISTICS

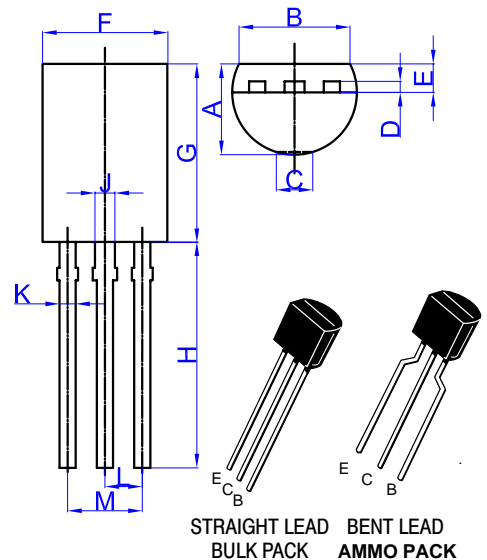
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =10 μAdc, I <sub>E</sub> =0)	20	---	---	Vdc
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1mAdc, I <sub>B</sub> =0)	25	---	---	Vdc
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =0.01mAdc, I <sub>C</sub> =0)	5.0	---	---	Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =20Vdc, I <sub>E</sub> =0)	---	---	1000	nAdc
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =4.0Vdc, I <sub>C</sub> =0)	---	---	1000	nAdc

#### ON CHARACTERISTICS

h <sub>FE</sub>	DC Current gain (I <sub>C</sub> =500mAdc, V <sub>CE</sub> =2.0Vdc)	85	---	240	---
V <sub>BE(on)</sub>	Base-Emitter On Voltage (V <sub>CE</sub> =2.0Vdc, I <sub>C</sub> =500mAdc)	---	---	1.0	Vdc
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =0.8Adc, I <sub>B</sub> =80mAdc)	---	---	0.5	Vdc
f <sub>T</sub>	Current Gain Bandwidth Product (V <sub>CE</sub> =2.0Vdc, I <sub>C</sub> =500mAdc)	---	190	---	MHz
C <sub>ob</sub>	Output Capacitance (V <sub>CB</sub> =10Vdc, I <sub>E</sub> =0, f=1.0MHz)	---	22	---	pF

(1) h<sub>FE</sub> Classification B: 85~170, C: 120~240

### TO-92L

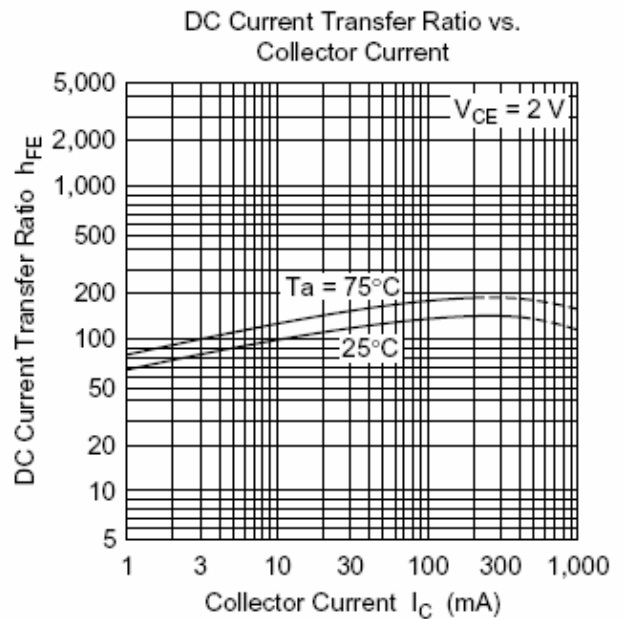
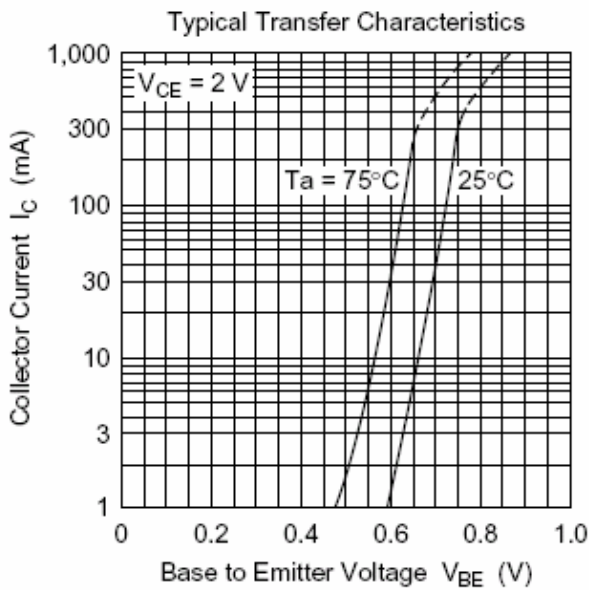
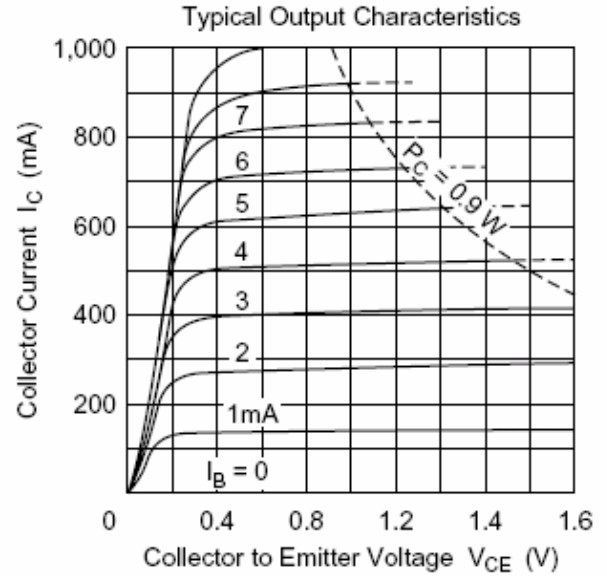
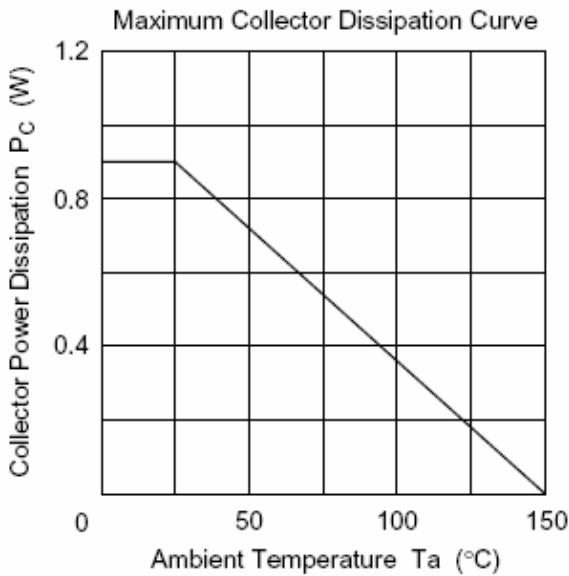


DIM	MM		INCHES		NOTE
	MIN	MAX	MIN	MAX	
A	3.700	4.100	.146	.161	
B	4.000	---	.157	---	
C	0.000	0.300	0.000	0.012	
D	0.350	0.450	.014	.018	
E	1.280	1.580	.050	.062	
F	4.700	5.100	.185	.201	
G	7.800	8.200	.307	.323	
H	13.80	14.20	.543	.559	
J	.600	.800	.024	.031	
K	0.350	.550	.014	.022	
L	1.270		.050		Straight Lead
	2.200	2.800	.086	.110	Bent Lead
M	2.440	2.640	.096	.104	Straight Lead
	4.400	5.600	.173	.220	Bent Lead

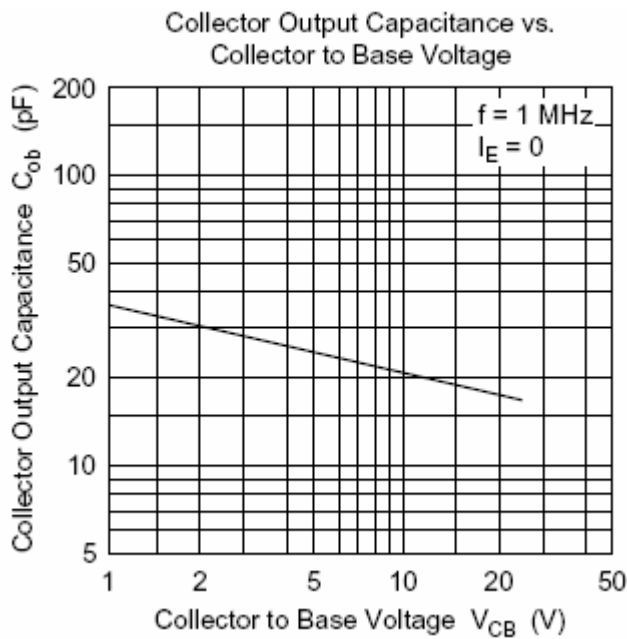
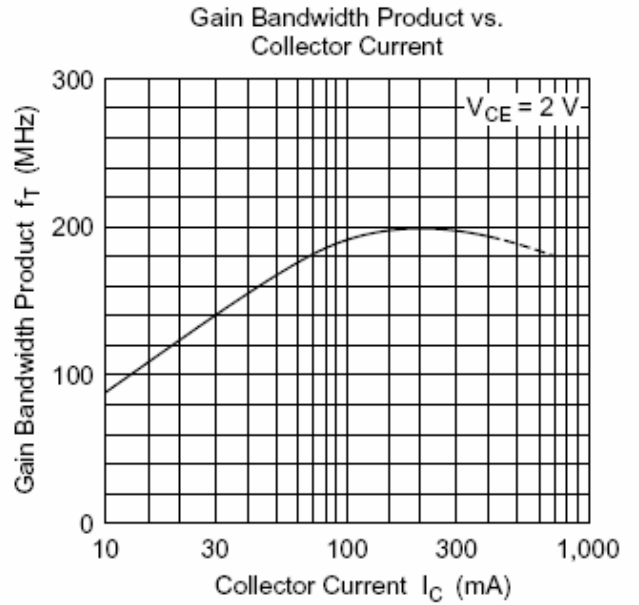
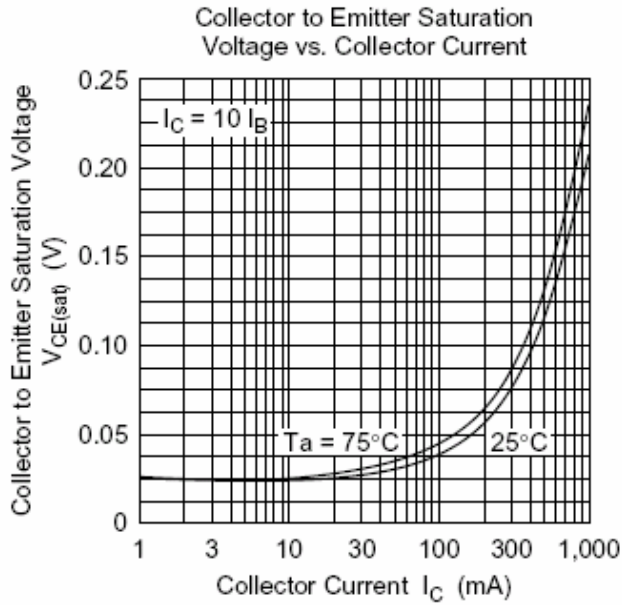
\* For ammo packing detailed specification, click here to visit our website of product packaging for details.

# 2SD468

## Typical Characteristics



Typical Characteristics





TM

Micro Commercial Components

### Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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