



Micro Commercial Components



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MPSA06

NPN Small Signal Transistor 625 mW

Features

- Halogen free available upon request by adding suffix "-HF"
- NPN Silicon Epitaxial Planar Transistor for switching and amplifier applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- As complementary type, the PNP transistor is MPSA56
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Marking: MPSA06
- Weight: 0.18 grams (Approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

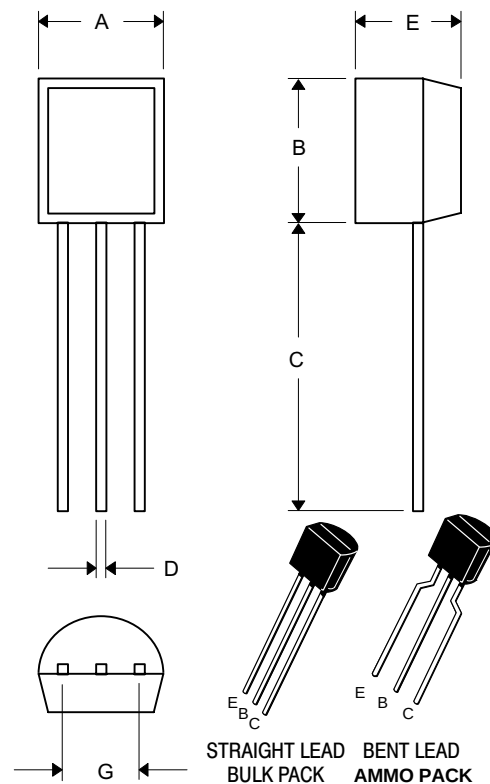
Characteristic	Symbol	Value	Unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CEO}	80	V
Emitter to Base Voltage	V_{EBO}	4.0	V
Collector Current	I_C	500	mA
Total Power Dissipation @ $T_A=25^\circ\text{C}$	P_{tot}	625	mW
Total Power Dissipation @ $T_C=25^\circ\text{C}$	P_{tot}	1.5	W
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to 150	$^\circ\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Min	Max	Unit	Test Cond.
Collector Cut-off Current	I_{CBO}		100	nA	$V_{CB}=80\text{V}, I_E=0$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$		0.25	V	$I_C=100\text{mA}, I_B=10\text{mA}$
DC Current Gain	h_{FE}	100	400		$V_{CE}=1\text{V}, I_C=10\text{mA}$ $V_{CE}=1\text{V}, I_C=100\text{mA}$
Gain Bandwidth Product	f_T	100		MHz	$V_{CE}=2\text{V}, I_C=10\text{mA}, f=100\text{MHz}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	80		V	$I_C=1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	4		V	$I_E=100\mu\text{A}, I_C=0$
Base-Emitter ON Voltage	$V_{BE(sat)}$		1.2	V	$I_C=100\text{mA}, I_B=10\text{mA}$

Note: Valid provided that leads are kept at ambient temperature.

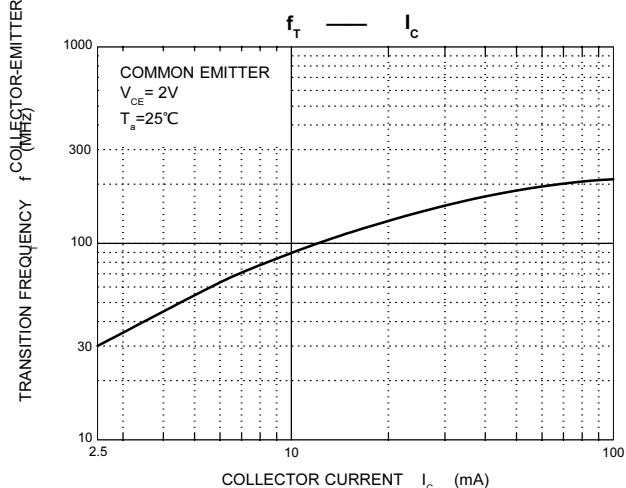
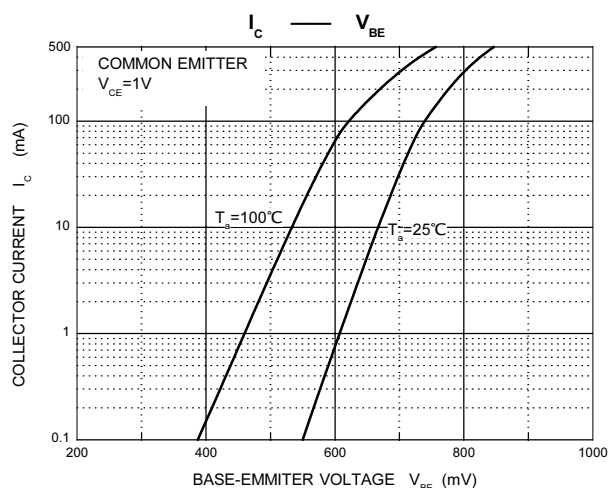
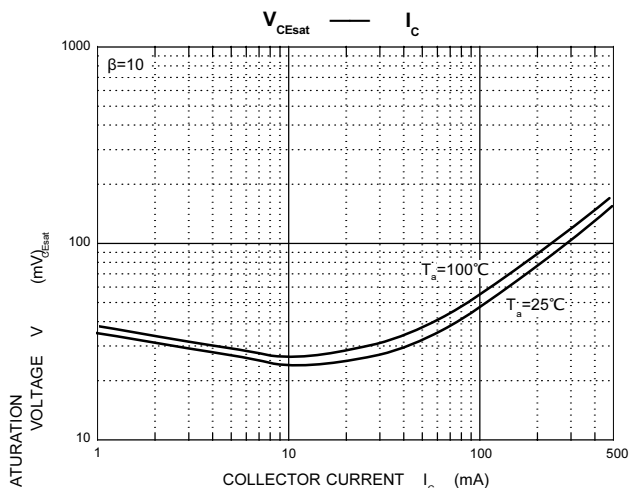
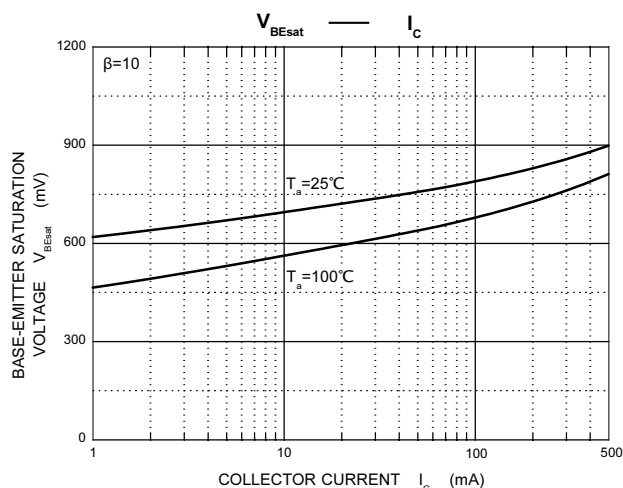
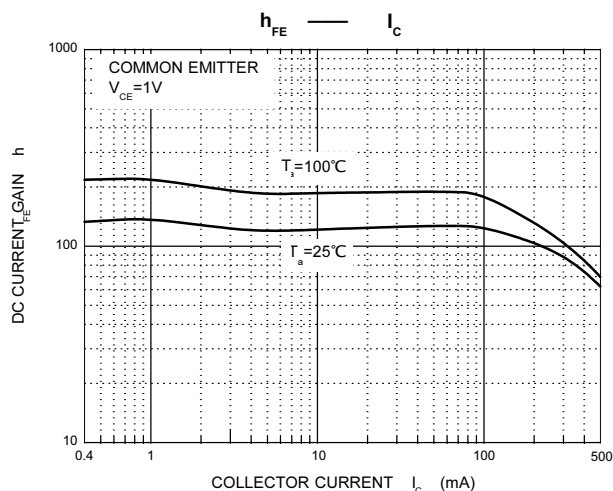
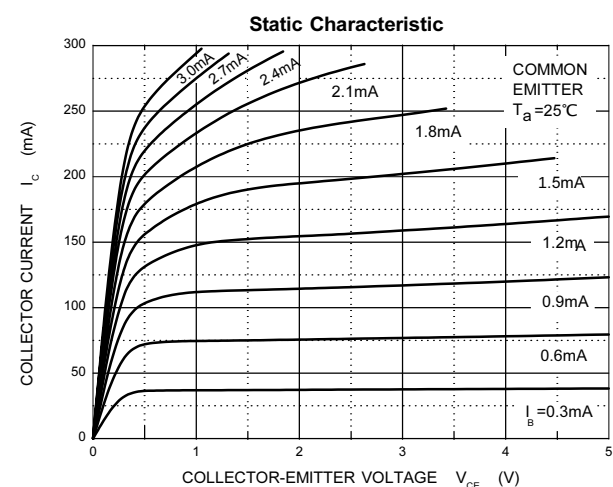
TO-92



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	—	12.70	—	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

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

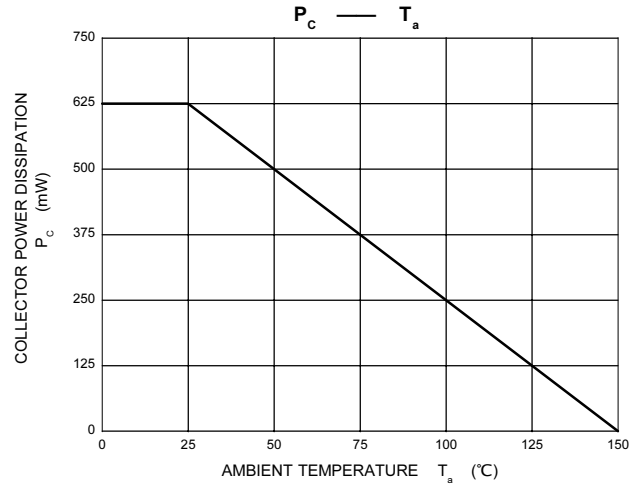
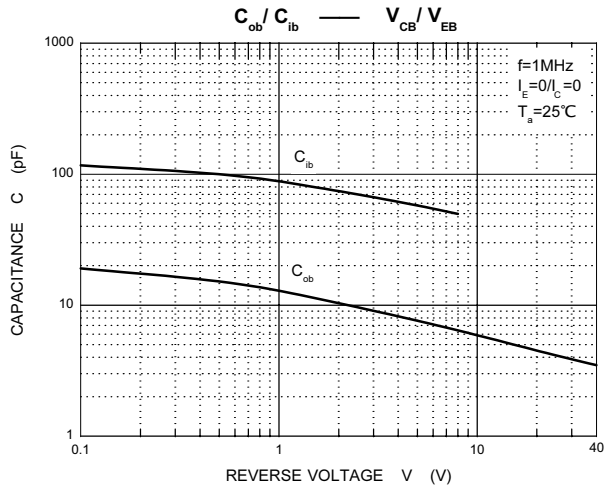
Typical Characteristics



$$\frac{C_{ob}}{C_{ib}} \quad \frac{V_{CB}}{V_{EB}}$$

$$P_C \quad T_a$$

Typical Characteristics



Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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

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