

MPSA92

Features

- Halogen free available upon request by adding suffix "-HF"
- Through Hole Package
- Operating & Storage Temperature: -55°C to +150°C
- Marking : A92
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

PNP Silicon High Voltage Transistor

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C = -1.0\text{mA}$, $I_B = 0$)	-300		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -100\mu\text{A}$, $I_E = 0$)	-300		Vdc
$V_{(BR)EBO}$	Emitter -Base Breakdown Voltage ($I_E = -10\mu\text{A}$, $I_C = 0$)	-5.0		Vdc
I_{EBO}	Emitter Cutoff Current ($V_{EB} = -3.0\text{V}$, $I_C = 0$)		-0.25	μA
I_{CBO}	Collector Cutoff Current ($V_{CB} = -200\text{V}$, $I_E = 0$)		-0.25	μA

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C = -1.0\text{mA}$, $V_{CE} = -10\text{V}$) ($I_C = -10\text{mA}$, $V_{CE} = -10\text{V}$) ($I_C = -50\text{mA}$, $V_{CE} = -10\text{V}$)	25 80 25	250	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -20\text{mA}$, $I_B = -2.0\text{mA}$)		-0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C = -20\text{mA}$, $I_B = -2.0\text{mA}$)		-0.9	Vdc

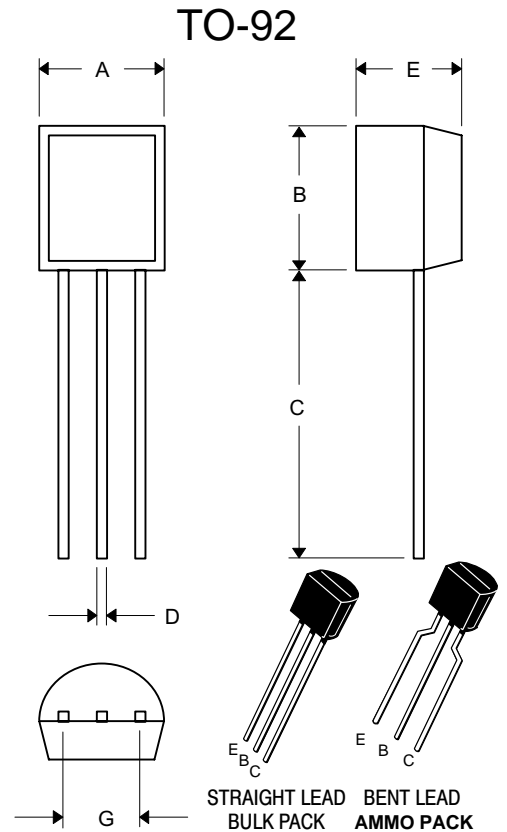
SMALL-SIGNAL CHARACTERISTICS

f_T	Current Gain-Bandwidth Product ($I_C = -10\text{mA}$, $V_{CE} = -5\text{V}$, $f = 30\text{MHz}$)	50		MHz
C_{cb}	Collector-Base Capacitance ($V_{CB} = -20\text{V}$, $I_E = 0$, $f = 1.0\text{MHz}$)		6.0	pF

*Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 2.0\%$

MAXIMUM RATINGS

Symbol	Characteristic	MPSA92	Unit
V_{CEO}	Collector-Emitter Voltage	-300	Vdc
V_{CBO}	Collector-Base Voltage	-300	Vdc
V_{EBO}	Emitter-Base Voltage	-5.0	Vdc
I_C	Collector Current — Continuous	-300	mA
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	200	$^{\circ}\text{C}/\text{W}$
$R_{\theta JC}$	Thermal Resistance, Junction to Case	83.3	$^{\circ}\text{C}/\text{W}$
P_D	Total Device Dissipation @ $T_A = 25^{\circ}\text{C}$ Derate above 25°C	625 5.0	mW mW/ $^{\circ}\text{C}$
P_D	Total Device Dissipation @ $T_C = 25^{\circ}\text{C}$ Derate above 25°C	1.5 12	Watts mW/ $^{\circ}\text{C}$



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.

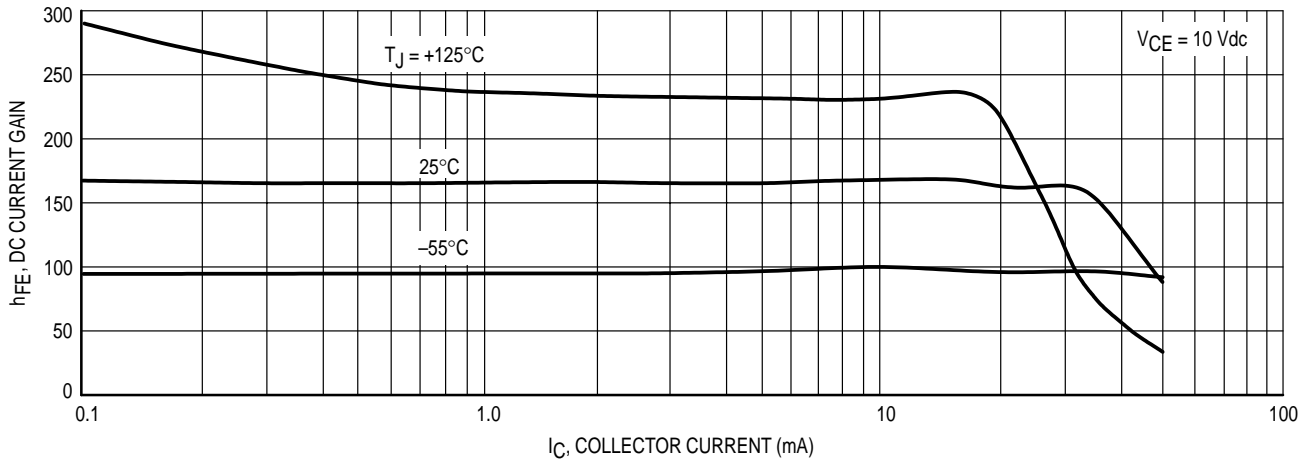


Figure 1. DC Current Gain

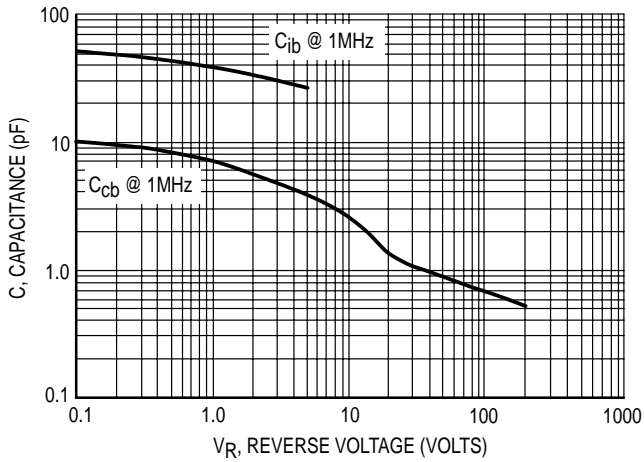


Figure 2. Capacitance

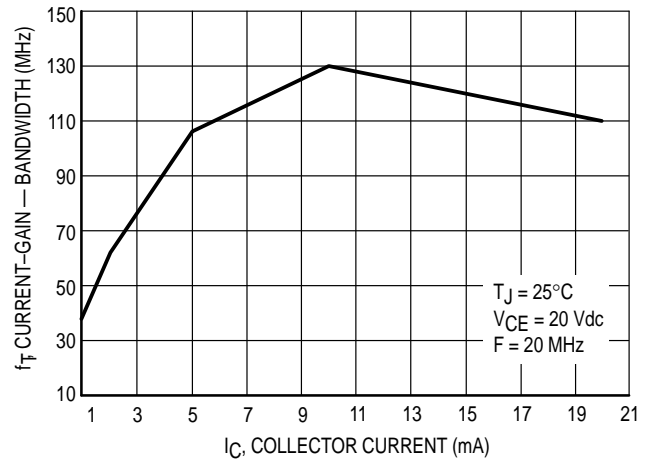


Figure 3. Current-Gain — Bandwidth

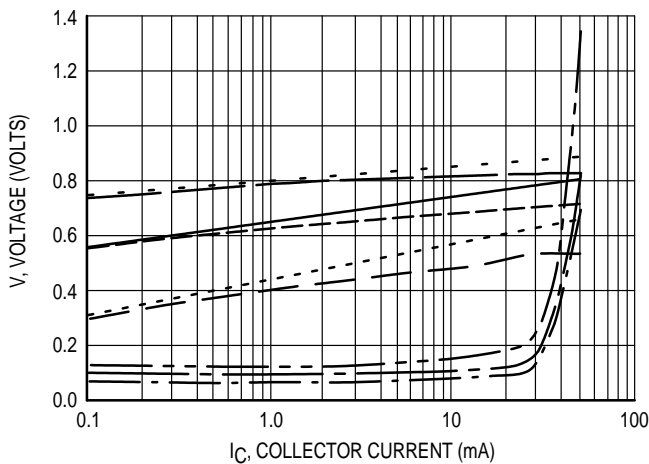


Figure 4. "ON" Voltages

- VCE(sat) @ 25°C, IC/IB = 10
- VCE(sat) @ 125°C, IC/IB = 10
- VCE(sat) @ -55°C, IC/IB = 10
- VBE(sat) @ 25°C, IC/IB = 10
- VBE(sat) @ 125°C, IC/IB = 10
- VBE(sat) @ -55°C, IC/IB = 10
- VBE(on) @ 25°C, VCE = 10 V
- VBE(on) @ 125°C, VCE = 10 V
- VBE(on) @ -55°C, VCE = 10 V



Micro Commercial Components

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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