

Micro Commercial Components



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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
- Moisure Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARA	OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =-1.0mAdc, I _B =0)	9			
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-100µAdc, I _E =0)	e -300 Vdc			
$V_{(BR)EBO}$	Emitter -Base Breakdown Voltage (I _E =-10μAdc, I _C =0)	-5.0		Vdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =-3.0Vdc, I _C =0)		-0.25	uAdc	
I _{CBO}	Collector Cutoff Current (V _{CB} =-200Vdc, I _E =0)		-0.25	uAdc	

ON CHARACTERISTICS

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

SMALL-SIGNAL CHARACTERISTICS

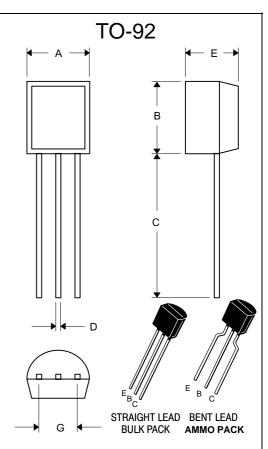
f_T	Current Gain-Bandwidth Product			
	$(I_C=-10 \text{mAdc}, V_{CE}=-5 \text{Vdc}, f=30 \text{MHz})$	50		MHz
C _{cb}	Collector-Base Capacitance			
	$(V_{CB}=-20Vdc, I_{E}=0, f=1.0MHz)$		6.0	pF

*Pulse Width ≤ 300µs, Duty Cycle ≤ 2.0%

MAXIMUM RATINGS

Symbol	Characteristic	MPSA92	Unit
VCEO	Collector-Emitter Voltage	-300	Vdc
^V СВО	Collector – Base Voltage –300		Vdc
V_{EBO}	Emitter-Base Voltage	-5.0	Vdc
lC	Collector Current — Continuous	-300	mAdc
$R_{ heta\mathsf{JA}}$	Thermal Resistance, Junction to Ambient	200	°C/W
$R_{\theta JC}$	Thermal Resistance, Junction to Case	83.3	°C/W
PD	Total Device Dissipation @ T _A = 25°C	625	mW
	Derate above 25°C	5.0	mW/°C
P _D	Total Device Dissipation @ T _C = 25°C	1.5	Watts
	Derate above 25°C	12	mW/°C

PNP Silicon High Voltage Transistor



DIMENSIONS					
	INCHI	ES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500		12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

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

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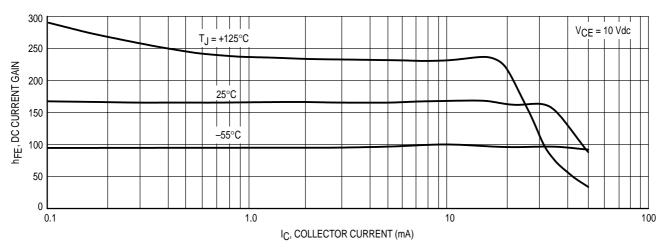


Figure 1. DC Current Gain

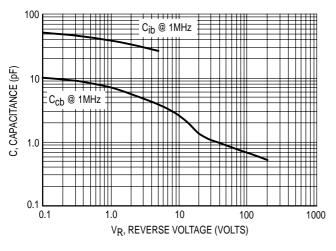


Figure 2. Capacitance

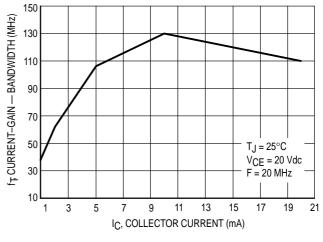
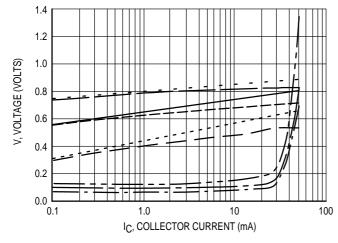
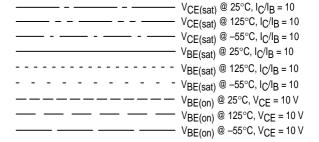


Figure 3. Current-Gain — Bandwidth







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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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