

Micro Commercial Components



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MPSA92

Features

- 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

PNP Silicon High Voltage Transistor

Electrica	l Characteristics @ 25°C Unles	s Otherw	ise Spe	cified	
Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I _C =-1.0mAdc, I _B =0)	-300 Vo			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =-100μAdc, I _E =0)	-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*				

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

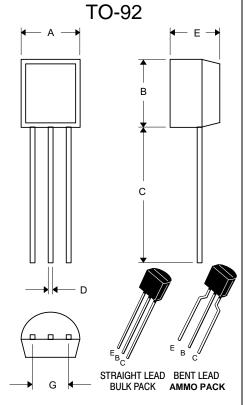
SMALL-SIGNAL CHARACTERISTICS

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

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

MAXIMUM RATINGS

Symbol	Characteristic	MPSA92	Unit	
VCEO	Collector-Emitter Voltage	Emitter Voltage –300		
V_{CBO}	Collector-Base Voltage	Base Voltage –300 Vo		
V_{EBO}	Emitter-Base Voltage	-5.0	Vdc	
IC	Collector Current — Continuous	-300	mAdc	
$R_{ hetaJA}$	Thermal Resistance, Junction to Ambient	200	°C/W	
$R_{ hetaJC}$	Thermal Resistance, Junction to Case	83.3	°C/W	
P_{D}	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	



DIMENSIONS					
	INCHE	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.

www.mccsemi.com



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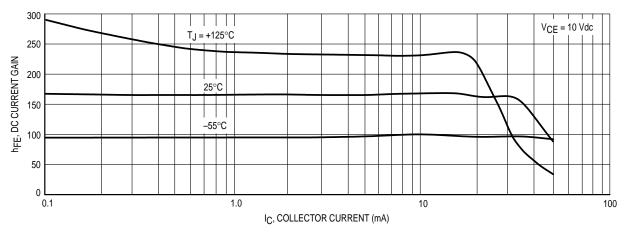


Figure 1. DC Current Gain

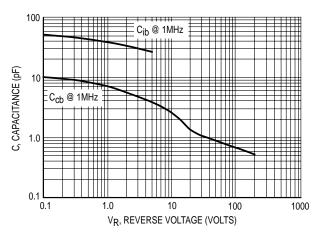


Figure 2. Capacitance

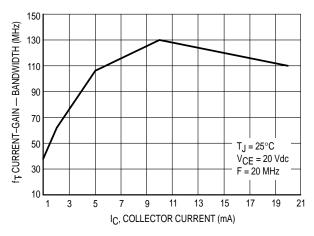
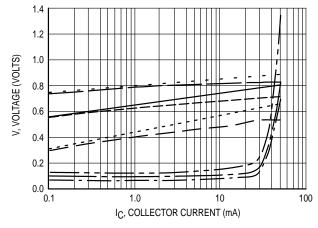
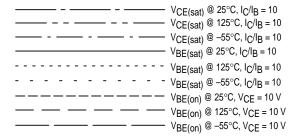


Figure 3. Current-Gain — Bandwidth







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Ordering Information:

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

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