



Micro Commercial Components

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Features

- Through Hole Package
- 150°C Junction Temperature
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Case: TO-92, Molded Plastic
- Marking:A94

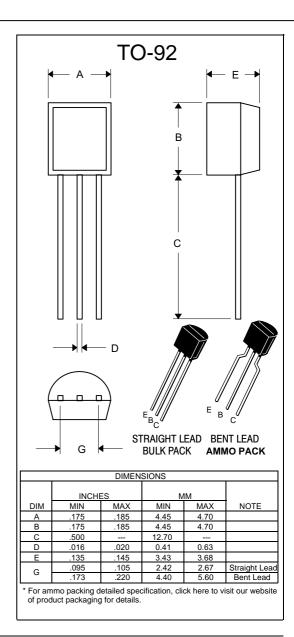
Maximum Ratings @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	-400	V
Collector-Base Voltage	V _{CBO}	-400	V
Emitter-Base Voltage	V _{EBO}	-5.0	V
Collector Current(DC)	Ι _C	-200	mA
Power Dissipation@T _A =25°C	P _d	625	mW
		5.0	m₩/ºC
Power Dissipation@T _c =25°C	P_{d}	1.5	W
		12	m₩/ºC
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	200	°C/W
Thermal Resistance, Junction to Case	R _θ JC	83.3	°C/W
Operating & Storage Temperature	T _i , T _{STG}	-55~150	°C

MPSA94

PNP Silicon High Voltage Transistor

625mW



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MPSA94



ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS		•	•	•
Collector–Emitter Breakdown Voltage ⁽¹⁾ ($I_C = -1.0 \text{ mAdc}, I_B = 0$)	V _{(BR)CEO}	-400	—	Vdc
Collector–Base Breakdown Voltage (I _C = -100 I uAdcEI= 0)	V _{(BR)CBO}	-400	-	Vdc
Emitter–Base Breakdown Voltage ($I_E = -100uAdc, IC = 0$)	V _{(BR)EBO}	-5.0	—	Vdc
Collector Cutoff Current ($V_{CB} = -300 \text{ Vdc}, \text{ IE} = 0$)	Ісво	—	-0.1	μAdc
Emitter Cutoff Current (V _{EB} = -4.0 Vdc, Ic = 0)	I _{EBO}	-	-0.1	μAdc
ON CHARACTERISTICS ⁽¹⁾		•	•	•
DC Current Gain ⁽¹⁾ (Ic = -1.0 mAdc, VcE = -10 Vdc) (Ic = -10 mAdc, VcE = -10 Vdc) (Ic = -100 mAdc, VcE = -10 Vdc)	h _{FE}	70 80 60	300	
Collector-Emitter Saturation Voltage ⁽¹⁾ ($I_C = -10 \text{ mAdc}$, $I_B = -1.0 \text{ mAdc}$) ($I_C = -50 \text{ mAdc}$, $I_B = -5.0 \text{ mAdc}$)	V _{CE(sat)}		-0.2 -0.3	Vdc
Base–Emitter Saturation Voltage (I _C = -10 mAdc, IB = -1.0 mAdc)	V _{BE(sat)}	—	-0.75	Vdc
SMALL-SIGNAL CHARACTERISTICS	· · ·			
Output Capacitance (V _{CB} = 20 Vdc, IE = 0, f = 1.0 MHz)	C _{obo}	—	7.0	pF
Input Capacitance $(V_{EB} = 0.5 \text{ Vdc}, \text{ Ic} = 0, \text{ f} = 1.0 \text{ MHz})$	C _{ibo}	—	130	pF
Small–Signal Current Gain (I _C = 10 mAdc, VcE = 10 Vdc, f = 20 MHz)	h _{fe}	1.0	—	_

1. Pulse Test: Pulse Width \leq 300 µs, Duty Cycle \leq 2.0%.



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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