

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

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MPSA94

PNP Silicon High

Voltage Transistor 625mW

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)

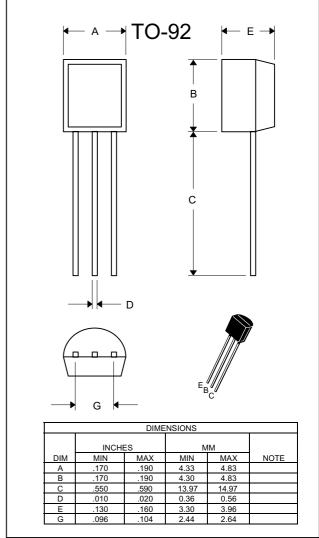
Mechanical Data

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)	I _C	-200	mA
Power Dissipation@T _A =25°C	P_d	625	mW
		5.0	mW/°C
Power Dissipation@T _C =25°C	P_{d}	1.5	W
		12	mW/°C
Thermal Resistance, Junction to Ambient Air	$R_{ hetaJA}$	200	°C/W
Thermal Resistance, Junction to Case	R _θ JC	83.3	°C/W
Operating & Storage Temperature	T _j , T _{STG}	-55~150	°C





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

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS	<u>.</u>			•
Collector–Emitter Breakdown Voltage ⁽¹⁾ (Ic = -1.0 mAdc, IB = 0)	V _{(BR)CEO}	-400	_	Vdc
Collector-Base Breakdown Voltage (Ic = -100 ı uAdcEl= 0)	V _{(BR)CBO}	-400	_	Vdc
Emitter–Base Breakdown Voltage (IE = -100uAdc, IC = 0)	V _{(BR)EBO}	-5.0	_	Vdc
Collector Cutoff Current (V _{CB} = -300 Vdc, IE = 0)	Ісво	_	-0.1	μAdc
Emitter Cutoff Current (VEB = -4.0 Vdc, IC = 0)	I _{EBO}	_	-0.1	μAdc
ON CHARACTERISTICS ⁽¹⁾	<u>.</u>			•
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⁾ (Ic = -10 mAdc, IB = -1.0 mAdc) (Ic = -50 mAdc, IB = -5.0 mAdc)	V _{CE(sat)}	_ _	-0.2 -0.3	Vdc
Base–Emitter Saturation Voltage (I _C = -10 mAdc, I _B = -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 (VEB = 0.5 Vdc, IC = 0, f = 1.0 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 $\mu\text{s},$ Duty Cycle \leq 2.0%.



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Ordering Information:

Device	Packing	
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box	
Part Number-BP	Bulk: 100Kpcs/Carton	

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