

Micro Commercial Components



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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

Collector Current — Continuous

Derate above 25°C

Derate above 25°C

Thermal Resistance, Junction to Ambient

Thermal Resistance, Junction to Case

Total Device Dissipation @ T_A = 25°C

Total Device Dissipation @ T_C = 25°C

Moisure Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	ICTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =-1.0mAdc, I _B =0)	-300		Vdc
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)	Emitter -Base Breakdown Voltage -5.0 (I _E =-10μAdc, I _C =0) -5.0		
I _{EBO}	Emitter Cutoff Current (V _{EB} =-3.0Vdc, I _C =0)		-0.25	uAdc
I _{СВО}	Collector Cutoff Current $(V_{CB}=-200Vdc, I_E=0)$		-0.25	uAdc
ON CHARA	CTERISTICS			
h _{FE}	DC Current Gain* (I _c =-1.0mAdc, V _{cE} =-10Vdc) (I _c =-10mAdc, V _{cE} =-10Vdc) (I _c =-50mAdc, V _{cE} =-10Vdc)	25 80 25	250	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-20mAdc, I _B =-2.0mAdc)	Γ	-0.5	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _C =-20mAdc, I _B =-2.0mAdc)		-0.9	Vdc
SMALL-SIG	INAL CHARACTERISTICS			
f⊤	Current Gain-Bandwidth Product (I _c =-10mAdc, V _{CE} =-5Vdc, f=30MHz)	50		MHz
C _{cb}	Collector-Base Capacitance (V _{CB} =-20Vdc, I _E =0, f=1.0MHz)		6.0	pF
*Pulse Widt MAXIMUM	h ≤ 300µs, Duty Cycle ≤ 2.0% RATINGS			
Symbol	Characteristic	MPSA92		Unit
VCEO	Collector-Emitter Voltage		-300	
Vсво	Collector-Base Voltage	-300		Vdc
VEBO	Emitter-Base Voltage	-5.0		Vdc

PNP Silicon High Voltage Transistor

MPSA92



	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
ш	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

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-300

200

83.3

625

5.0

1.5

12

lC

 $R_{\theta}JA$

R₀JC

PD

PD

mAdc

°C/W

°C/W

mW

mW/°C

Watts

mW/°C

MPSA92



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Figure 4. "ON" Voltages

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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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