



Micro Commercial Components

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MPSA93

Features

- Through Hole Package
- 150°C Junction Temperature
- Complementary to MPSA42/43
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:A93

Epitaxial Planar PNP Transistor

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	-200	V
V _{CBO}	Collector-Base Voltage	-200	V
V _{EBO}	Emitter-Base Voltage	-5.0	V
I _C	Collector Current	-500	mA
I _E	Emitter Current	500	mA
P _C	Collector Power Dissipation	625	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =1.0mA, I _B =0)	-200	---	Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100μA, I _C =0)	-200	---	Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =-150Vdc, I _E =0)	---	-0.25	μA
I _{EBO}	Emitter Cutoff Current (V _{EB} =-3.0Vdc, I _C =0)	---	-0.1	μA

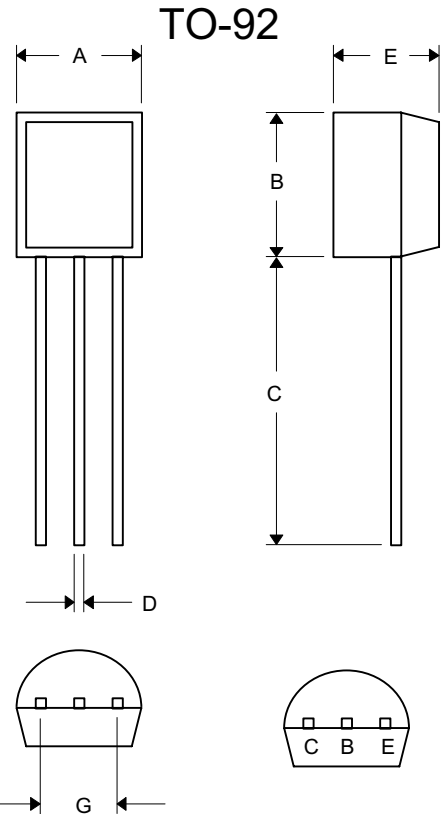
OFF CHARACTERISTICS

*h _{FE}	DC Current Gain (V _{CE} =-10Vdc, I _C =-1.0mA) (V _{CE} =-10Vdc, I _C =-10mA) (V _{CE} =-10Vdc, I _C =-30mA)	25 40 25	---	---
*V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-20mA, I _B =-2.0mA)	---	-0.5	Vdc
*V _{BE(on)}	Base-Emitter On Voltage (I _C =-20mA, I _B =-2.0mA)	---	-0.9	Vdc

Small Signal Characteristics

f _T	Current Gain Bandwidth Product (I _C =-10mA, V _{CE} =-20Vdc, f=100MHz)	50	---	MHz
C _{ob}	Collector Output Capacitance (I _E =0mA, V _{CB} =-20Vdc, f=1MHz)		8.0	pF

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



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	



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Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel;2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag

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