



Micro Commercial Components



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MPSA93

Features

- Halogen free available upon request by adding suffix "-HF"
- Through Hole Package
- 150°C Junction Temperature
- Complementary to MPSA42/43
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:A93

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 ($I_E=100\mu A$, $I_C=0$)	-200	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-150Vdc$, $I_E=0$)	---	-0.25	μA dc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-3.0Vdc$, $I_C=0$)	---	-0.1	μA dc

OFF CHARACTERISTICS

$*h_{FE}$	DC Current Gain ($V_{CE}=-10Vdc$, $I_C=-1.0mA$)	25	---	---
	($V_{CE}=-10Vdc$, $I_C=-10mA$)	40	---	---
	($V_{CE}=-10Vdc$, $I_C=-30mA$)	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

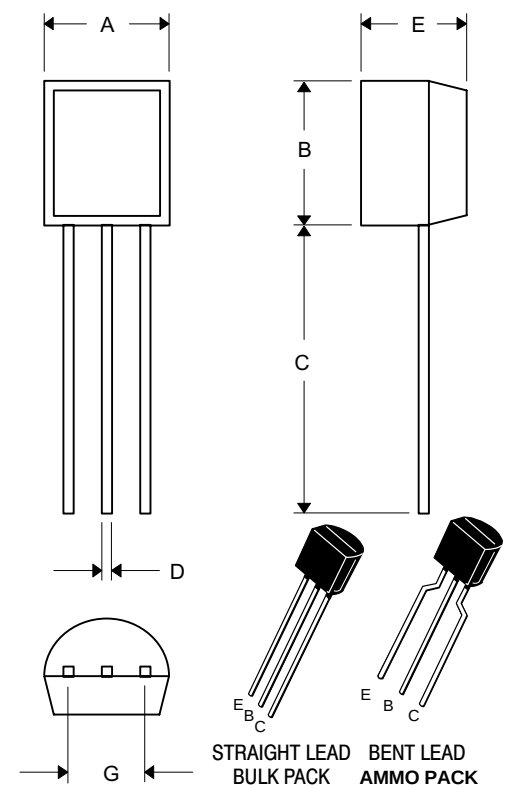
Small Signal Characteristics

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 $\leq 300\mu s$, Duty Cycle $\leq 2.0\%$

Epitaxial Planar PNP Transistor

TO-92



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

* For ammo packing detailed specification, click here to visit our website of product packaging for details.

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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