

MPS750

PNP Plastic-Encapsulate Transistors

Features

- Halogen free available upon request by adding suffix "-HF"
- General Purpose Amplifier
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Maximum Thermal Resistance: 200°C/W Junction to Ambient

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CB0}	Collector-Base Voltage	-60	V
V_{CE0}	Collector-Emitter Voltage	-40	V
V_{EB0}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current, Continuous	-2	A
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Thermal Characteristics

Symbol	Rating	Max	Unit
P_D	Total Device Dissipation	625	mW

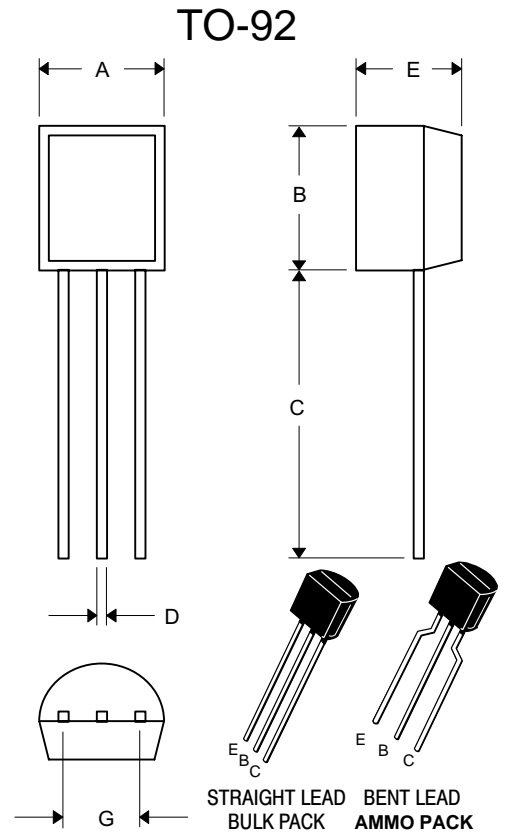
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}^*$	Collector-Emitter Breakdown Voltage* ($I_C=-10\text{mA}$, $I_B=0$)	-40	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-100\mu\text{A}$, $I_E=0$)	-60	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=-10\mu\text{A}$, $I_C=0$)	-5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-60\text{Vdc}$, $I_E=0$)	---	-100	nAdc
I_{EBO}	Base Cutoff Current ($V_{EB}=-4\text{Vdc}$, $I_C=0$)	---	-100	nAdc
h_{FE}^*	DC Current Gain ($V_{CE}=-2.0\text{Vdc}$, $I_C=-50\text{mA}$) ($V_{CE}=-2.0\text{Vdc}$, $I_C=-500\text{mA}$) ($V_{CE}=-2.0\text{Vdc}$, $I_C=-1\text{A}$) ($V_{CE}=-2.0\text{Vdc}$, $I_C=-2\text{A}$)	75 75 75 40	400	
$V_{CE(sat)}^*$	Collector-Emitter Saturation Voltage ($I_C=-2\text{A}$, $I_B=-200\text{mA}$) ($I_C=-1\text{A}$, $I_B=-100\text{mA}$)		-0.5 -0.3	Vdc Vdc
$V_{BE(sat)}^*$	Base-Emitter saturation Voltage ($I_C=-1\text{A}$, $I_B=-100\text{mA}$)		-1.2	Vdc
$V_{BE(on)}^*$	Base-Emitter On Voltage ($I_C=-1\text{A}$, $V_{CE}=-2.0\text{Vdc}$)		-1.0	Vdc
f_T	Transition frequency ($I_C=-50\text{mA}$, $V_{CE}=-5\text{Vdc}$, $f=100\text{MHz}$)	75		MHz

*Pulse Test: Pulse Width ≤ 300us, Duty Cycle = 2.0%.



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.



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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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