



MPS2907-L/H MPS2907A-L/H

PNP Silicon Plastic-Encapsulate Transistor

Features

- Capable of 0.625Watts of Power Dissipation.
- Collector-current -0.6A
- Collector-base Voltage -60V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: MPS2907/MPS2907A
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

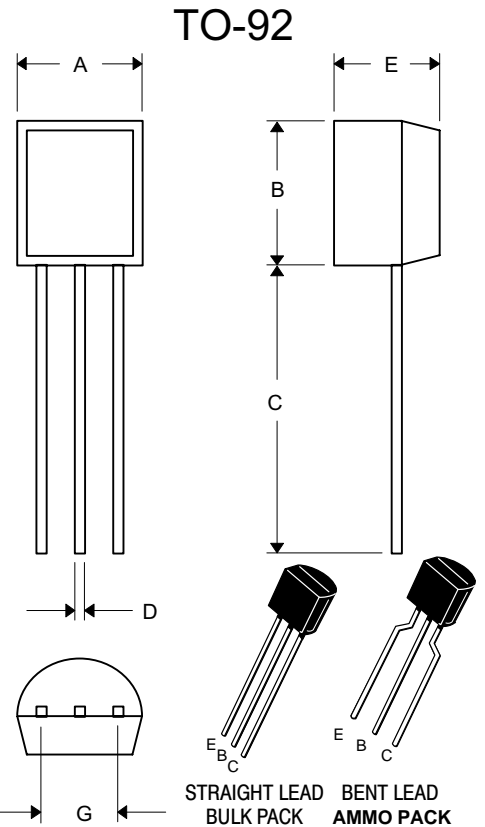
Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-10mA$, $I_B=0$)	MPS2907 -40	---	Vdc
		MPS2907A -60	---	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-10\mu A$, $I_E=0$)	-60	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=-10\mu A$, $I_C=0$)	-5.0	---	Adc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-50V$, $I_E=0$)	---	-0.1	μA
		MPS2907 ---	-0.01	
I_{CEO}	Collector Cutoff Current ($V_{CE}=-35V$, $I_E=0$)	---	-0.1	Vdc
		MPS2907 ---	-0.05	
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-3.0V$, $I_C=0$)	---	-0.1	μA
		MPS2907 ---	-0.01	

ON CHARACTERISTICS

h_{FE-1}	DC Current Gain ($I_C=-150mA$, $V_{CE}=-10V$)	100	300	---
h_{FE-2}	DC Current Gain ($I_C=-1.0mA$, $V_{CE}=-10V$)	MPS2907 60	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-500mA$, $I_B=-50mA$)	---	-0.6	Vdc
$V_{(BE)sat}$	Base-Emitter Saturation Voltage ($I_C=-500mA$, $I_B=-50mA$)	---	-1.2	Vdc
f_T	Transition Frequency ($V_{CE}=-20V$, $I_C=-50mA$, $f=100MHz$)	200	---	MHz

CLASSIFICATION OF h_{FE}

Rank	L	H
Range	100-200	200-300



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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