



## 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
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#### OFF CHARACTERISTICS

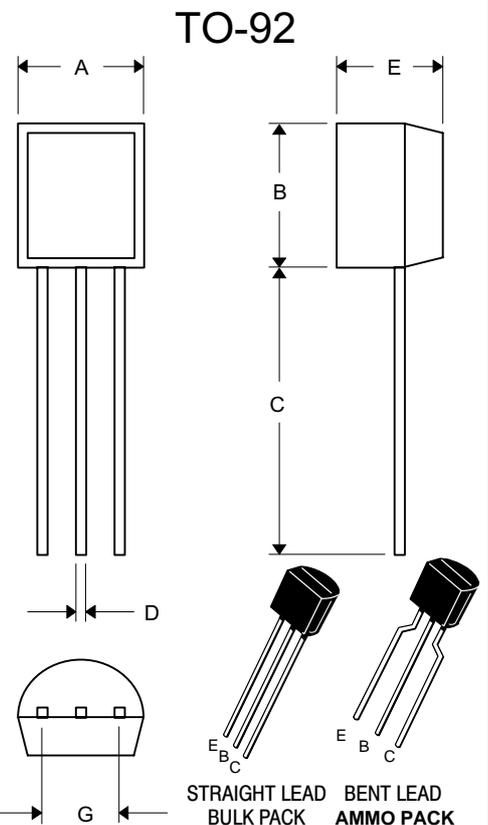
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=-10\text{mAdc}$ , $I_B=0$ )	MPS2907 -40	---	Vdc
		MPS2907A -60	---	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=-10\text{uAdc}$ , $I_E=0$ )	-60	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=-10\text{uAdc}$ , $I_C=0$ )	-5.0	---	Adc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=-50\text{Vdc}$ , $I_E=0$ )	---	-0.1	uAdc
		MPS2907 ---	-0.01	
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=-35\text{Vdc}$ , $I_E=0$ )	---	-0.1	Vdc
		MPS2907A ---	-0.05	
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=-3.0\text{Vdc}$ , $I_C=0$ )	---	-0.1	uAdc
		MPS2907 ---	-0.01	

#### ON CHARACTERISTICS

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