



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
- Moisure Sensitivity Level 1
- Marking: MPS2907/MPS2907A
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

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

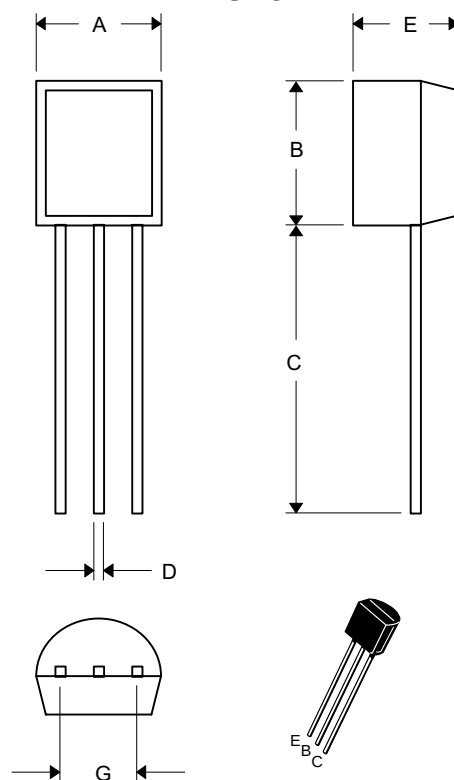
ON CHARACTERISTICS

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

CLASSIFICATION OF h_{FE}

Rank	L	H
Range	100-200	200-300

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	

Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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