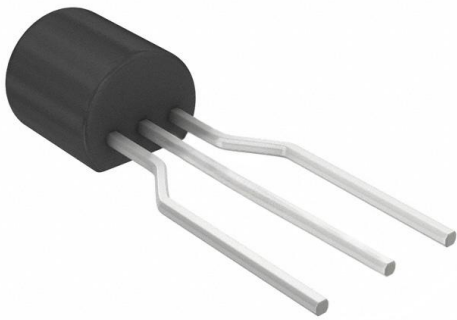


# MPS2907A-AP Datasheet

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<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	MPS2907A-AP-DG
Manufacturer	<a href="#">Micro Commercial Co</a>
Manufacturer Product Number	MPS2907A-AP
Description	TRANS PNP 60V 0.6A TO92
Detailed Description	Bipolar (BJT) Transistor PNP 60 V 600 mA 200MHz 6 25 mW Through Hole TO-92



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

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## Purchase and inquiry

Manufacturer Product Number:

MPS2907A-AP

Series:

-

Transistor Type:

PNP

Voltage - Collector Emitter Breakdown (Max):

60 V

Current - Collector Cutoff (Max):

50nA

Power - Max:

625 mW

Operating Temperature:

-55°C ~ 150°C (TJ)

Package / Case:

TO-226-3, TO-92-3 (TO-226AA) Formed Leads

Base Product Number:

MPS2907

Manufacturer:

Micro Commercial Co

Product Status:

Obsolete

Current - Collector (Ic) (Max):

600 mA

Vce Saturation (Max) @ Ib, Ic:

600mV @ 50mA, 500mA

DC Current Gain (hFE) (Min) @ Ic, Vce:

100 @ 150mA, 10V

Frequency - Transition:

200MHz

Mounting Type:

Through Hole

Supplier Device Package:

TO-92

## Environmental & Export classification

RoHS Status:

RoHS Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8541.21.0075

**M.C.C.**

Micro Commercial Components

Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311Phone: (818) 701-4933  
Fax: (818) 701-4939**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**

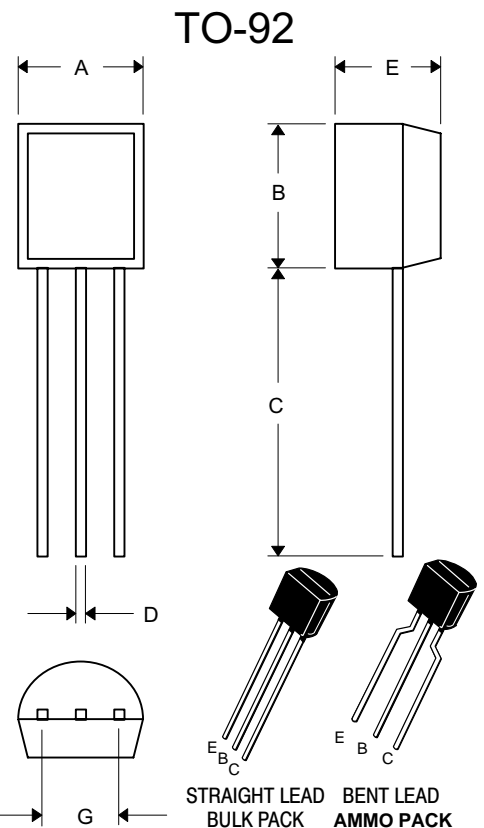
Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=-10\text{mA}$ , $I_B=0$ )	MPS2907 -40	---	Vdc
		MPS2907A -60	---	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=-10\mu\text{A}$ , $I_E=0$ )	-60	---	Vdc
$V_{(BR)EBO}$	Emitter-Base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

**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 ( $I_C=-1.0\text{mA}$ , $V_{CE}=-10\text{Vdc}$ )	MPS2907 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



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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