



Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

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Part Number	PN2907A
product family	TO-92 Plastic-Encapsulate Bipolar Transistors
Product Polarity	PNP
SMD/ThroHole	Through Hole
VCEO	60V
VCBO	60V
VEBO	5.0V
Ic	
PC	600mW
HFE(min)	100
@Ic	10mA
@VCE	10V
ICBO	100nA
IEBO	
VCE(sat)	0.4V
VBE(sat)	1.3V
ft	200MHz
nf	
TON_max	
Package Qty	Bulk: 1k/Bag, ,100K/Ctn; T/B: 2K/Ammo Box , 20K/Ctn;

Green/Pb Free/RoHS/REACH

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Micro Commercial Components

PN2907A

PNP General Purpose Amplifier

Features

- Through Hole Package
- Capable of 600mWatts of Power Dissipation and 600mA I_c
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking: MPS2907A
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=10mA$, $I_B=0$)	60		Vdc
$V_{(BR)CBO}$	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		Vdc
I_{BL}	Base Cutoff Current ($V_{CE}=30Vdc$, $V_{BE}=0.5Vdc$)		50	nAdc
I_{CEX}	Collector Cutoff Current ($V_{CE}=30Vdc$, $V_{BE}=0.5Vdc$)		50	nAdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=50Vdc$, $I_E=0$) ($V_{CB}=50Vdc$, $I_E=0$, $T_A=150^\circ C$)		0.1 10.0	μA dc

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C=0.1mA$, $V_{CE}=10Vdc$) ($I_C=1.0mA$, $V_{CE}=10Vdc$) ($I_C=10mA$, $V_{CE}=10Vdc$) ($I_C=150mA$, $V_{CE}=10Vdc$) ($I_C=500mA$, $V_{CE}=10Vdc$)	75		
		100		
		100	300	
		100		
		50		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$) ($I_C=500mA$, $I_B=50mA$)		0.4 1.6	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$) ($I_C=500mA$, $I_B=50mA$)		1.3 2.6	Vdc

SMALL-SIGNAL CHARACTERISTICS

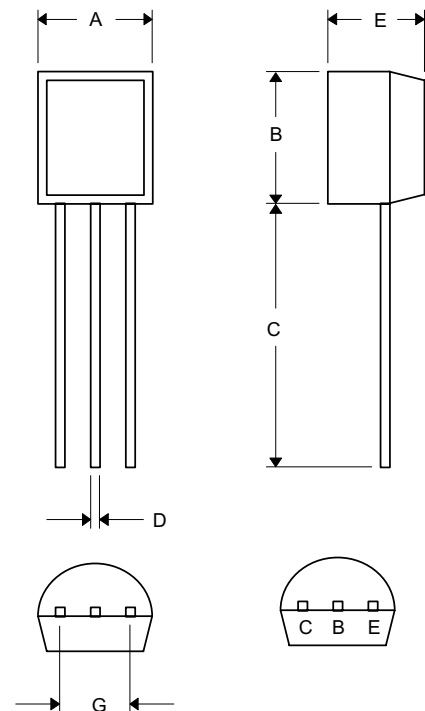
f_T	Current Gain-Bandwidth Product ($I_C=50mA$, $V_{CE}=20Vdc$, $f=100MHz$)	200		MHz
C_{cbo}	Output Capacitance ($V_{CB}=10Vdc$, $I_E=0$, $f=100kHz$)		8.0	pF
C_{ibo}	Input Capacitance ($V_{EB}=2.0Vdc$, $I_C=0$, $f=100kHz$)		30.0	pF

SWITCHING CHARACTERISTICS

t_d	Delay Time	(V _{CC} =3.0Vdc, I _C =150mA, I _{B1} =15mA)	10	ns
t_r	Rise Time		40	ns
t_s	Storage Time	(V _{CC} =3.0Vdc, I _C =150mA, I _{B1} =I _{B2} =15mA)	80	ns
t_f	Fall Time		30	ns

*Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2.0\%$

TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	



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Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel;2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag