

PN2907A

PNP General Purpose Amplifier

Features

- Halogen free available upon request by adding suffix "-HF"
- Through Hole Package
- Capable of 600mWatts of Power Dissipation and 600mA Ic
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking:MPS2907A
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 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* ($I_C=0.1mA$, $V_{CE}=10Vdc$) ($I_C=1.0mA$, $V_{CE}=10Vdc$) ($I_C=10mA$, $V_{CE}=10Vdc$) ($I_C=150mA$, $V_{CE}=10Vdc$) ($I_C=500mA$, $V_{CE}=10Vdc$)	75 100 100 100 50	300	
$V_{CE(sat)}$	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

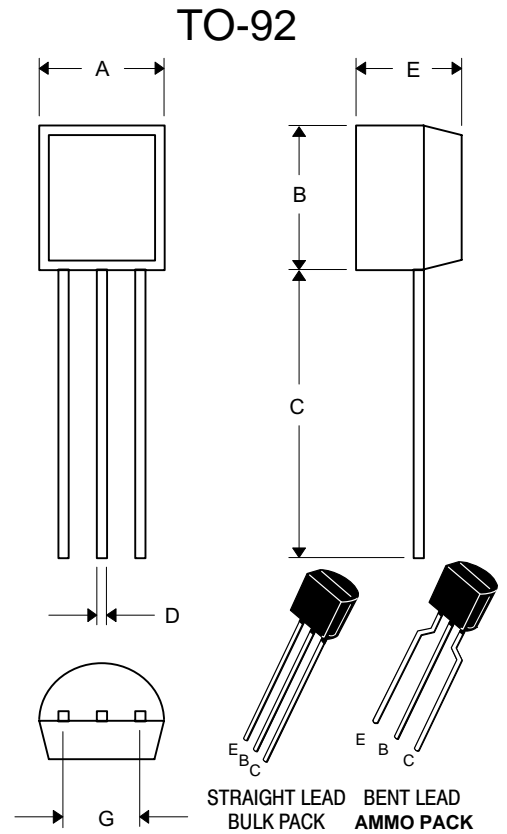
SMALL-SIGNAL CHARACTERISTICS

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

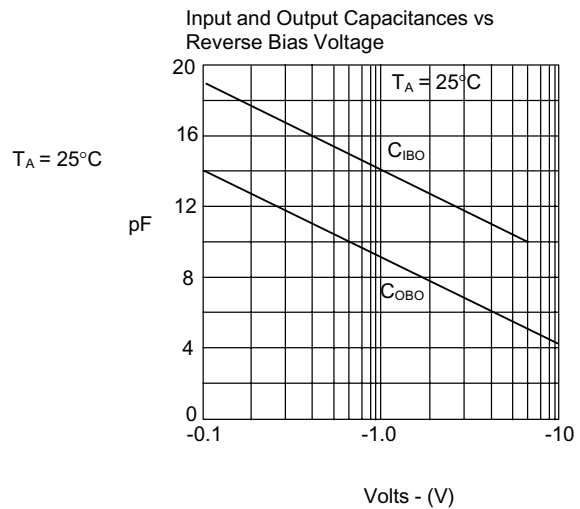
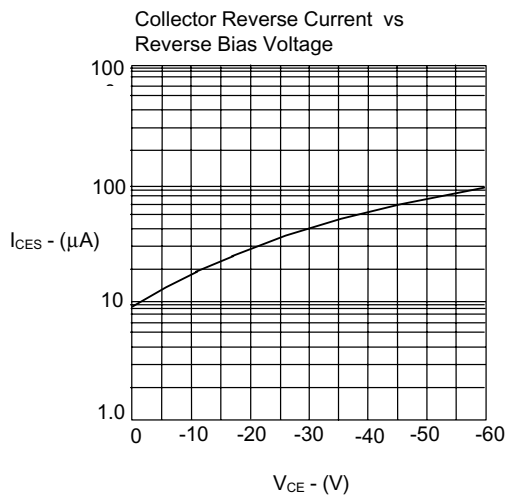
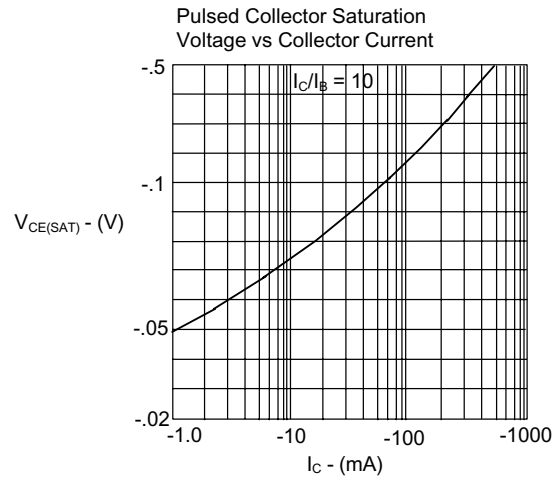
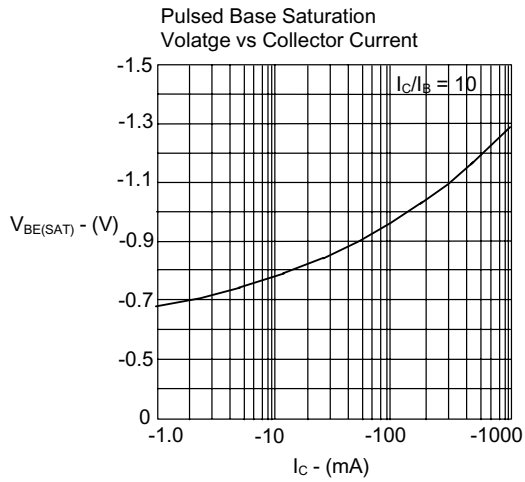
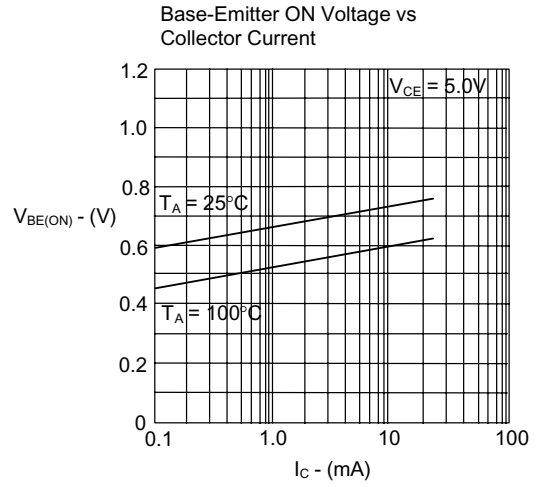
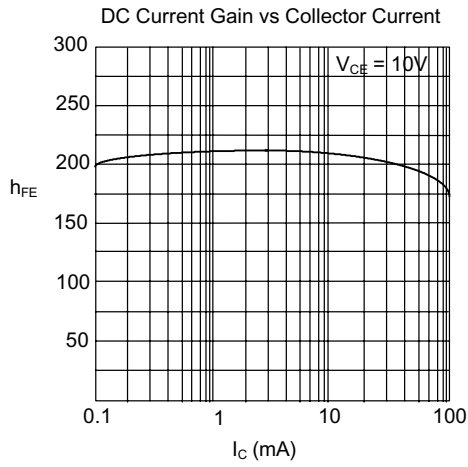
t_d	Delay Time	($V_{CC}=3.0Vdc$, $I_C=150mA$)	10	ns
t_r	Rise Time	($I_{B1}=15mA$)	40	ns
t_s	Storage Time	($V_{CC}=3.0Vdc$, $I_C=150mA$)	80	ns
t_f	Fall Time	($I_{B1}=I_{B2}=15mA$)	30	ns

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



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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

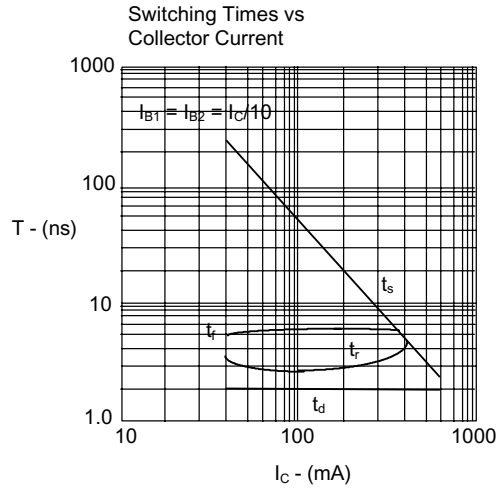
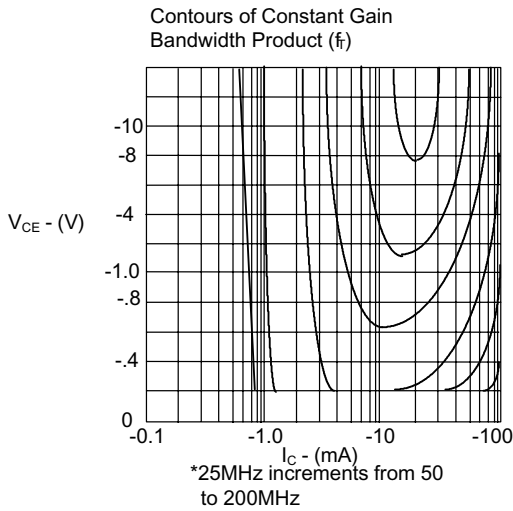
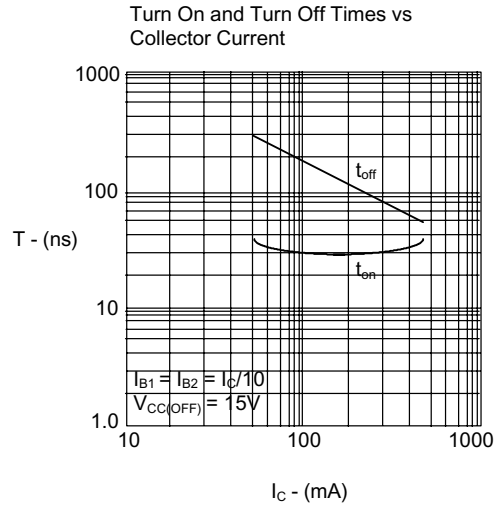
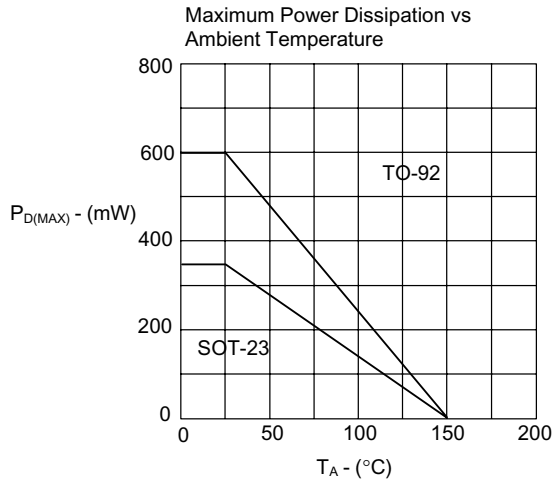
* For ammo packing detailed specification, click here to visit our website of product packaging for details.



PN2907A



Micro Commercial Components





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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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