

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 I_c
- 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 _{dc} , I _b =0)	60		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =10μA _{dc} , I _E =0)	60		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =10μA _{dc} , I _C =0)	5.0		Vdc
I _{BL}	Base Cutoff Current (V _{CE} =30Vdc, V _{BE} =0.5Vdc)		50	nA _{dc}
I _{CEX}	Collector Cutoff Current (V _{CE} =30Vdc, V _{BE} =0.5Vdc)		50	nA _{dc}
I _{CBO}	Collector Cutoff Current (V _{CB} =50Vdc, I _E =0) (V _{CB} =50Vdc, I _E =0, T _A =150°C)		0.1 10.0	μA _{dc}

ON CHARACTERISTICS

h _{FE}	DC Current Gain* (I _c =0.1mA _{dc} , V _{CE} =10Vdc) (I _c =1.0mA _{dc} , V _{CE} =10Vdc) (I _c =10mA _{dc} , V _{CE} =10Vdc) (I _c =150mA _{dc} , V _{CE} =10Vdc) (I _c =500mA _{dc} , V _{CE} =10Vdc)	75 100 100 100 50	300	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =150mA _{dc} , I _b =15mA _{dc}) (I _c =500mA _{dc} , I _b =50mA _{dc})		0.4 1.6	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _c =150mA _{dc} , I _b =15mA _{dc}) (I _c =500mA _{dc} , I _b =50mA _{dc})		1.3 2.6	Vdc

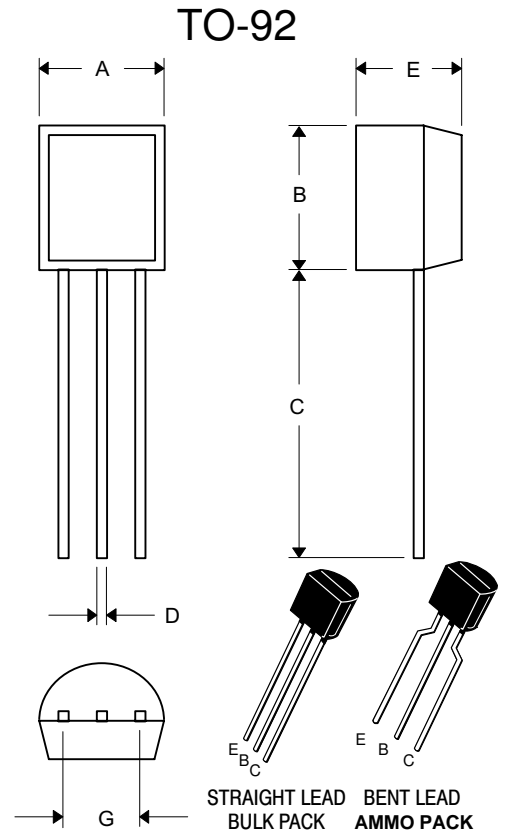
SMALL-SIGNAL CHARACTERISTICS

f _T	Current Gain-Bandwidth Product (I _c =50mA _{dc} , 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

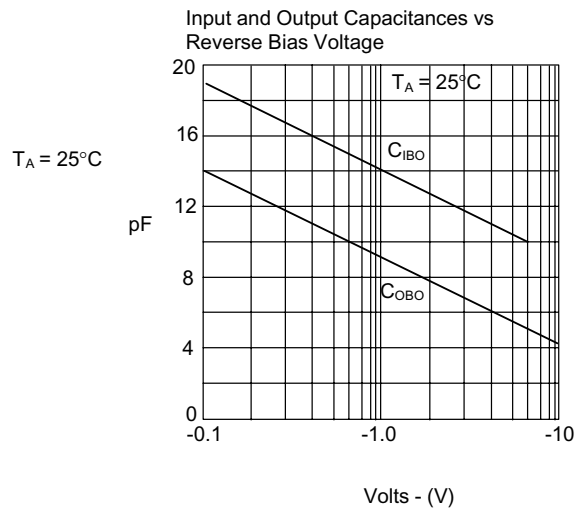
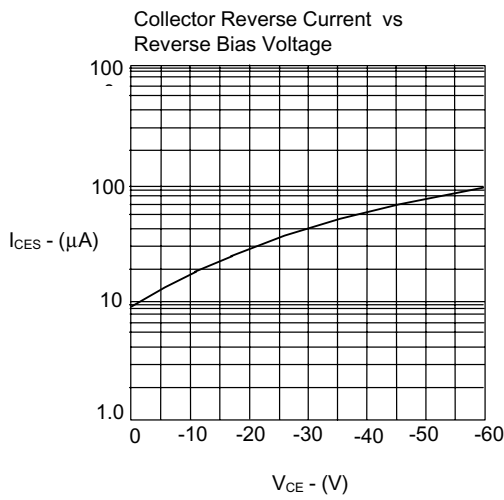
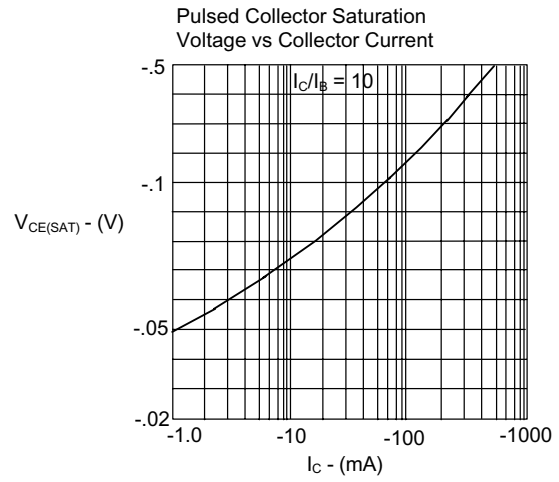
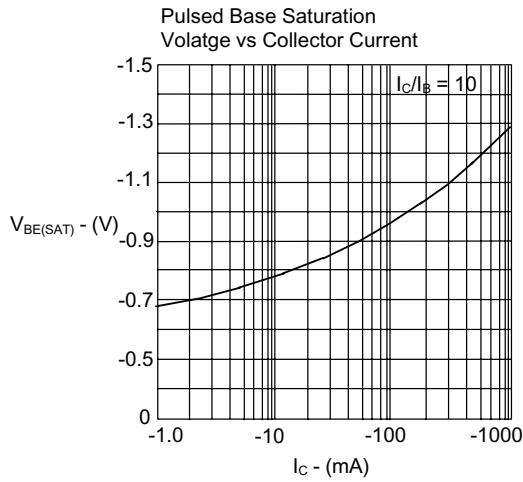
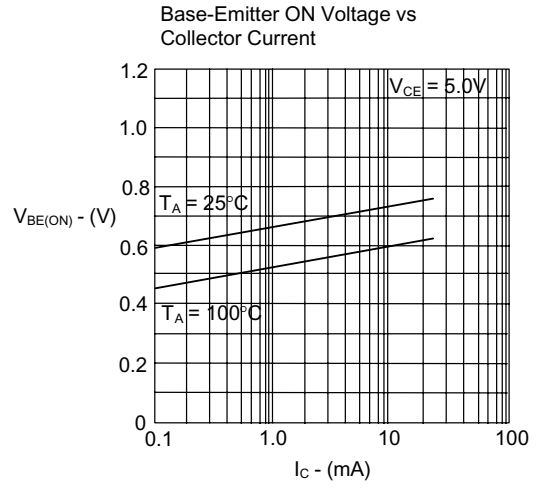
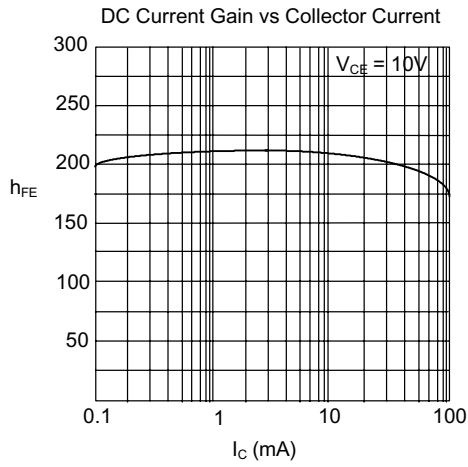
t _d	Delay Time	(V _{CC} =3.0Vdc, I _C =150mA _{dc} , I _{B1} =15mA _{dc})	10	ns
t _r	Rise Time	(V _{CC} =3.0Vdc, I _C =150mA _{dc})	40	ns
t _s	Storage Time	(V _{CC} =3.0Vdc, I _C =150mA _{dc})	80	ns
t _f	Fall Time	(I _{B1} =I _{B2} =15mA _{dc})	30	ns

*Pulse Width ≤ 300μs, Duty Cycle ≤ 2.0%



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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

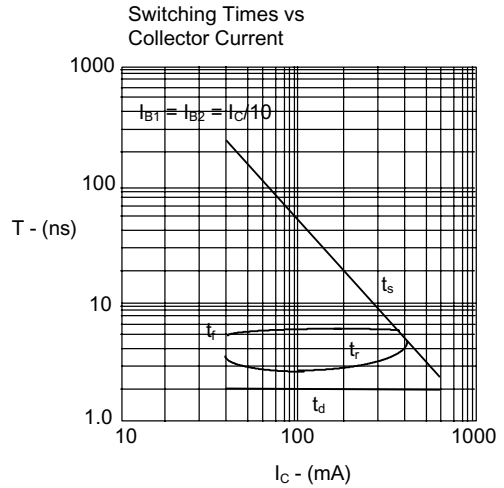
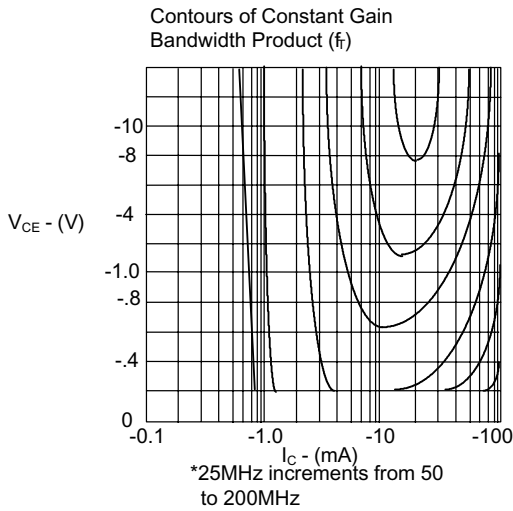
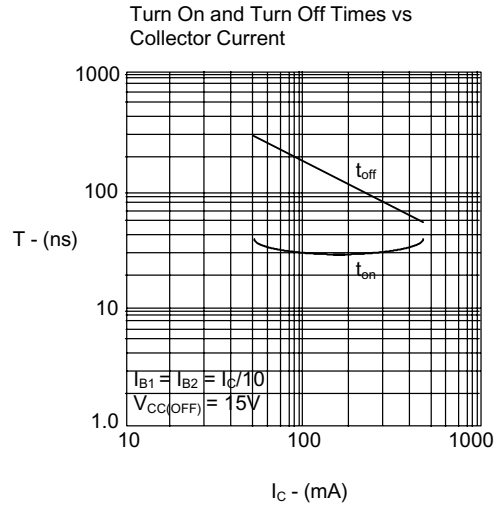
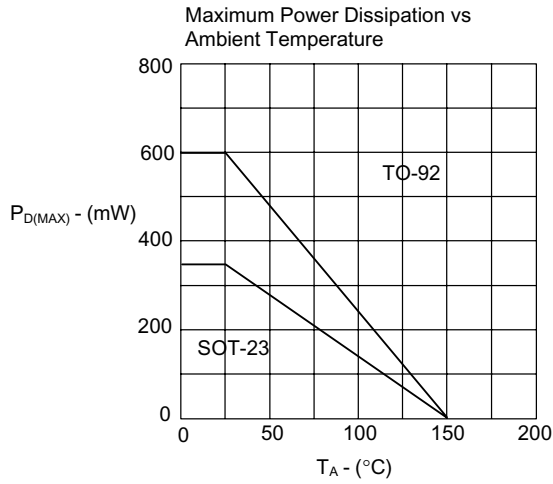
* For ammo packing detailed specification, click here to visit our website of product packaging for details.



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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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