

Micro Commercial Components



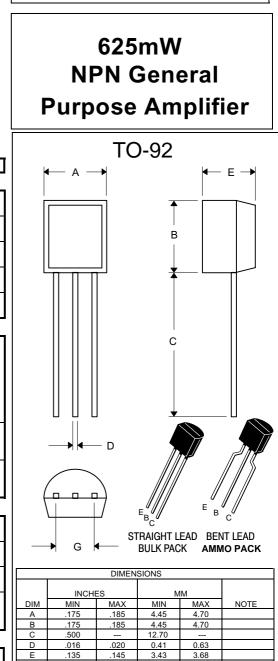
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates
- RoHS Compliant. See ordering information) Marking:Type number ¢
- Continuous Collector Current (Ic) =600mA.
- Operating and storange temperature range(Tj&Tstg) from -55°C ~+150 °C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units
OFF CHARA	CTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =10mAdc, I _B =0)		40		Vdc
V _{(BR)CBO}	Collector-Base E (I _c =10µAdc, I _E	75		Vdc	
V _{(BR)EBO}	Emitter-Base Bro (I _E =10µAdc, I _C	6.0		Vdc	
I _{BL}	Base Cutoff Curr (V _{CE} =60Vdc, V		20	nAdc	
I _{CEX}	Collector Cutoff Current (V _{CE} =60Vdc, V _{BE} =3.0Vdc)			10	nAdc
ON CHARAG	CTERISTICS				
h _{FE}	DC Current Gair (I _c =0.1mAdc, \ (I _c =1.0mAdc, \ (I _c =10mAdc, \ (I _c =150mAdc, \ (I _c =150mAdc, \ (I _c =500mAdc, \)	35 50 75 100 50 40	300		
V _{CE(sat)}	Collector-Emitter (I _c =150mAdc, (I _c =500mAdc,		0.3 1.0	Vdc	
V _{BE(sat)}	Base-Emitter Sa (I _c =150mAdc, (I _c =500mAdc,	0.6	1.2 2.0	Vdc	
SMALL-SIG	NAL CHARACTER		•		
f⊤	Current Gain-Bandwidth Product (I _c =20mAdc, V _{cE} =20Vdc, f=100MHz)		300		MHz
C _{obo}	Output Capacitance (V _{CB} =10Vdec, I _E =0, f=100kHz)			8.0	pF
C _{ibo}	Input Capacitance (V _{BE} =0.5Vdc, I _C =0, f=100kHz)			25	pF
NF	Noise Figure (I_c =100 μ Adc, V _{cE} =10Vdc, R _S =1.0k Ω f=1.0kHz)			4.0	dB
SWITCHIN	G CHARACTERIST	IICS			
t _d	Delay Time	(V_{CC} =30Vdc, V_{BE} =0.5Vd		10	ns
t _r	Rise Time	I _C =150mAdc, I _{B1} =15mA		25	ns
t _s	Storage Time	(V _{cc} =30Vdc, I _c =150mA	dC	225	ns
t _f *Pulco Width	Fall Time 1 ≤ 300µs, Duty Cv				ns



.095 .173

of product packaging for details.

G

2.42

For ammo packing detailed specification, click here to visit our website

.105

.220

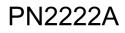
2.67 5.60

PN2222A

'Pulse Width ≤300μs, Duty Cycle≤2.0%

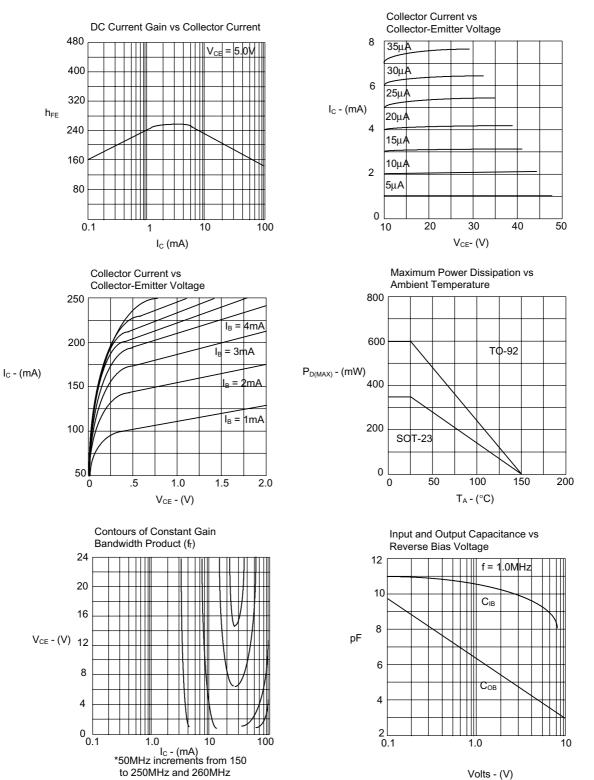
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Straight Lead Bent Lead





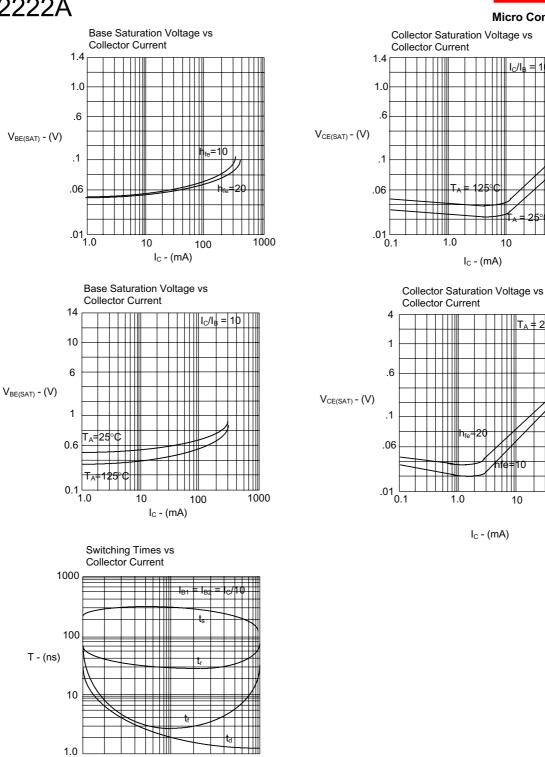
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100

100

 $I_{\rm C}/I_{\rm B} =$

10

I_C - (mA)

1.0

1.0

10

I_c - (mA)

www.mccsemi.com

100

1.0

10

I_c - (mA)



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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