

Micro Commercial Components



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

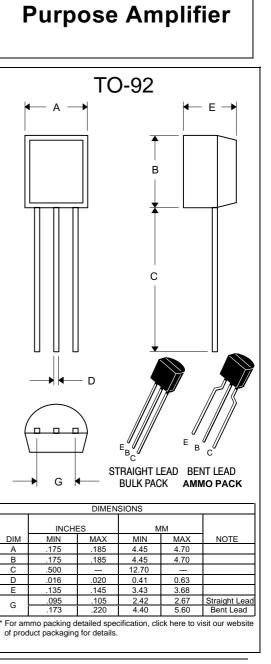
Features

- Halogen free available upon request by adding suffix "-HF"
- Capable of 625mWatts of Power Dissipation
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:Type number
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =-1.0mAdc, I _B =0)	-40		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _c =-100µAdc, I _E =0)	-40		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-100µAdc, I _C =0)	-5.0		Vdc
I _{CBO}	Collector Cut-off Current (V _{CE} =-35Vdc,I _E =0)		-0.1	μAdc
I _{EBO}	Emitter Cut-off Current (V _{EB} =-5Vdc,lc=0)		-0.1	μAdc
ON CHARAC	CTERISTICS			
h _{FE}	DC Current Gain* (I _c =-0.1mAdc, V _{cE} =-1.0Vdc) (I _c =-1.0mAdc, V _{cE} =-1.0Vdc) (I _c =-10mAdc, V _{cE} =-1.0Vdc) (I _c =-150mAdc, V _{cE} =-1.0Vdc) (I _c =-500mAdc, V _{cE} =-2.0Vdc)	30 60 100 100 20	300	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I _c =-150mAdc, I _B =-15mAdc) (I _c =-500mAdc, I _B =-50mAdc)		-0.4 -0.75	Vdc
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage (Ic=-150mAdc, I₀=-15mAdc) (Ic=-500mAdc, I₀=-50mAdc)	-0.75	-0.95	Vdc

SMALL-SIGNAL CHAKAGTERISTIGS Current Gain-Bandwidth Product f_T 200 (I_C=-20mAdc, V_{CE}=-10Vdc, f=100MHz) MHz C_{cb} **Output Capacitance** pF (V_{CB}=-10Vdc, I_E=0, f=140kHz) 8.5 C_{eb} Input Capacitance (V_{EB}=-0.5Vdc, I_C=0, f=140kHz) 30.0 pF SWITCHING CHARACTERISTICS Delay Time (V_{CC}=-3.0Vdc, V_{BE}=-2.0Vdc 15 t ns **Rise Time** I_C=-150mAdc, I_{B1}=-15mAdc) 20 t, ns (V_{cc}=-3.0Vdc, I_c=-150mAdc 225 Storage Time ts ns tf Fall Time $I_{B1}=I_{B2}=-15mAdc$) 30 ns



2N4403

PNP General

*Pulse Width \leq 300µs, Duty Cycle \leq 2.0%

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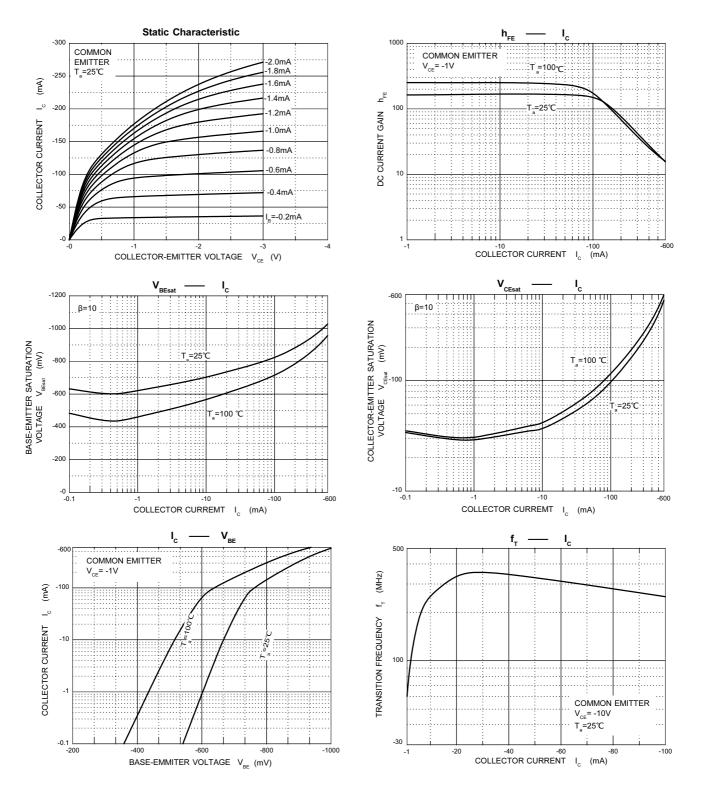
Revision: F

2014/11/26



Typical Characteristics

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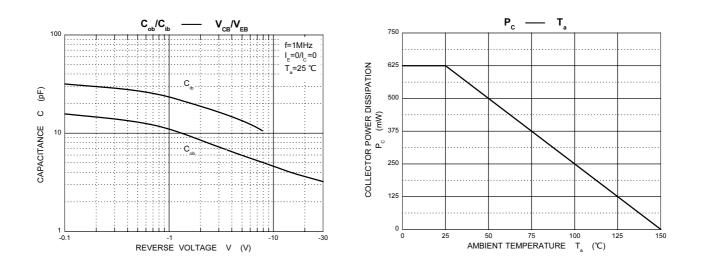
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Ordering Information :

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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