

**Micro Commercial Components** 



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# **Features**

- Capable of 0.6Watts of Power Dissipation.
- Collector-current 0. 7A
- Collector-base Voltage 30V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: C2001
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

# Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =10mAdc, ½=0)	25		Vdc	
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =100uAdc, I <sub>E</sub> =0)	30		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I <sub>E</sub> =100uAdc, I <sub>C</sub> =0)	5.0		Adc	
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =30Vdc, I <sub>E</sub> =0)		0.1	uAdc	
I <sub>CEO</sub>	Collector Cutoff Current (V <sub>CE</sub> =20Vdc, ½=0)		0.1	Vdc	
l <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =5.0Vdc, I <sub>C</sub> =0)		0.1	uAdc	

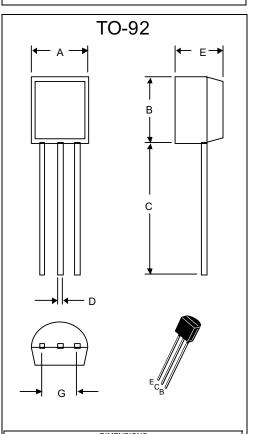
## **ON CHARACTERISTICS**

h <sub>FE</sub>	DC Current Gain	90	400	
	(I <sub>C</sub> =100mAdc, V <sub>CE</sub> =1.0Vdc)			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		0.6	Vdc
. ,	(I <sub>C</sub> =700mAdc, I <sub>B</sub> =70mAdc)			
V <sub>(BE)sat</sub>	Base-Emitter Saturation Voltage		1.2	Vdc
,,,,,,,	(I <sub>C</sub> =700mAdc, I <sub>B</sub> =70mAdc)			
fT	Transition Frequency	50		MHz
	(V <sub>CE</sub> =6.0Vdc, I <sub>C</sub> =10mAdc, f=30MHz)			

# CLASSIFICATION OF He

Rank	Rank M		K	
Range	90-180	135-270	200-400	

# NPN Silicon Plastic-Encapsulate Transistor



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	



# **Ordering Information:**

Device	Packing		
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box		
Part Number-BP	Bulk: 100Kpcs/Carton		

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