

Pb

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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## **Features**

- Halogen free available upon request by adding suffix "-HF"
- Low Collector Saturation Voltage: V<sub>CE(sat)</sub>=0.25V(Max.)
- Low Output Capacitance: Cob=2.0pF(Typ.)
- Complementary Pair With 2SA1980
- Marking: C5343
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

### **Maximum Ratings**

Symbol	Rating	Rating	Unit	
$V_{\text{CEO}}$	Collector-Emitter Voltage	50	V	
V <sub>CBO</sub>	Collector-Base Voltage	60	V	
$V_{EBO}$	Emitter-Base Voltage	5.0	V	
Ic	Collector Current	150	mA	
Pc	Collector power dissipation	625	mW	
TJ	Junction Temperature	150	°С	
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C	

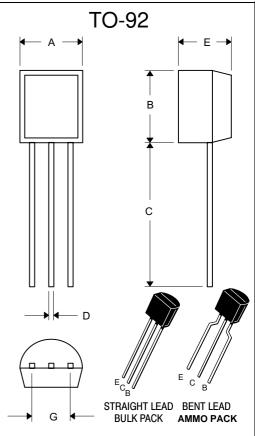
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min		wax	Units
OFF CHARACTERISTICS					
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>C</sub> =100µAdc, I <sub>B</sub> =0)	60			Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =10mAdc, I <sub>B</sub> =0)	50			Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I <sub>E</sub> =10µAdc, I <sub>C</sub> =0)	5.0			Vdc
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =60Vdc,I <sub>E</sub> =0)			0.1	μAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =5.0Vdc, I <sub>C</sub> =0)			0.1	μAdc
ON CHARACTERISTICS					

h <sub>FE</sub>	Forward Current Transfer ratio* (I <sub>C</sub> =2.0Adc, V <sub>CE</sub> =6.0Vdc)	70		700	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =100mAdc, I <sub>B</sub> =10mAdc)			0.25	Vdc
f⊤	Transition Frequency (V <sub>CE</sub> =10Vdc, I <sub>C</sub> =1.0mAdc)	80			MHz
C <sub>ob</sub>	Collector Output Capacitance (V <sub>CB</sub> =10Vdc, I <sub>E</sub> =0, f=1.0MHz)		2.0	3.5	pF
NF	Noise Figure (V <sub>CE</sub> =6.0Vdc, I <sub>C</sub> =0.1mAdc, f=1.0KHz, Rg=10K ())			10	dB

<sup>\*</sup> h<sub>FE</sub> rank / O: 70-140, Y:120-240, G:200-400, L:300-700

# NPN Silicon Transistors



DIMENSIONS					
	INCHE	ES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
O	.500		12.70		
D	.016	.020	0.41	0.63	
П	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

<sup>\*</sup> 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: 100 Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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