

**Micro Commercial Components** 

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Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 BC337-16/25/40 BC338-16/25/40

## **Features**

- Halogen free available upon request by adding suffix "-HF"
- Capable of 0.625Watts of Power Dissipation.
- Collector-current 0.8A
- Collector-base Voltage: V<sub>CBO</sub>=50V(BC337), V<sub>CBO</sub>=30V(BC338)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

## **Maximum Ratings**

Operating temperature : -55°C to +150°C

Storage temperature : -55°C to +150°C

## Electrical Characteristics @ $25^{\circ}$ C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =10mAdc, I <sub>B</sub> =0)			Vdc
	BC337	45		
	BC338	25		
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>C</sub> =100µAdc, I <sub>E</sub> =0)			Vdc
	BC337 BC338	50 30		
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I <sub>E</sub> =10µAdc, I <sub>C</sub> =0)	5.0		Vdc
I <sub>CBO</sub>	Collector Cutoff Current			μAdc
	$(V_{CB}=45Vdc, I_{E}=0)$ BC337 $(V_{CB}=25Vdc, I_{E}=0)$ BC338		0.1 0.1	
I <sub>CEO</sub>	Collector Cutoff Current			μAdc
	$(V_{CE}=40Vdc,I_{B}=0)$ BC337 $(V_{CE}=20Vdc,I_{B}=0)$ BC338		0.2 0.2	
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>ER</sub> =4.0Vdc, I <sub>C</sub> =0)		0.1	μAdc

### ON CHARACTERISTICS

h <sub>FE(1)</sub>	DC Current Gain	60		
	$(I_C=300 \text{mAdc}, V_{CE}=1.0 \text{Vdc})$			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		0.7	Vdc
	(I <sub>C</sub> =500mAdc, I <sub>B</sub> =50mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
` ′	(Ic=500mAdc Ic=50mAdc)			

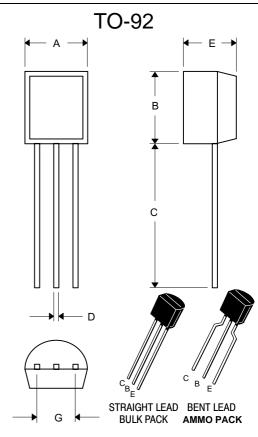
### SMALL SIGNAL CHARACTERISTICS

OMALL SIGNAL SHAHASI LIHGI 100				
f <sub>⊤</sub>	Current-Gain-Bandwidth Product (V <sub>CE</sub> =5.0V, f=100MHz, I <sub>C</sub> =10mA)	210		MHz
$C_{ob}$	Collector Output Capacitance (VCB=10V.IE=0.f=1MHZ)	15(TYP)		pF

### **hfe Classification**

III I CENCOTI TONI			
Classification	16	25	40
$h_{FE(2)}$ ( $I_C$ =100mAdc, $V_{CE}$ =1.0Vdc)	100~250	160~400	250~630
Marking Code	A 011	B 011	C 011

# NPN Plastic-Encapsulate Transistors



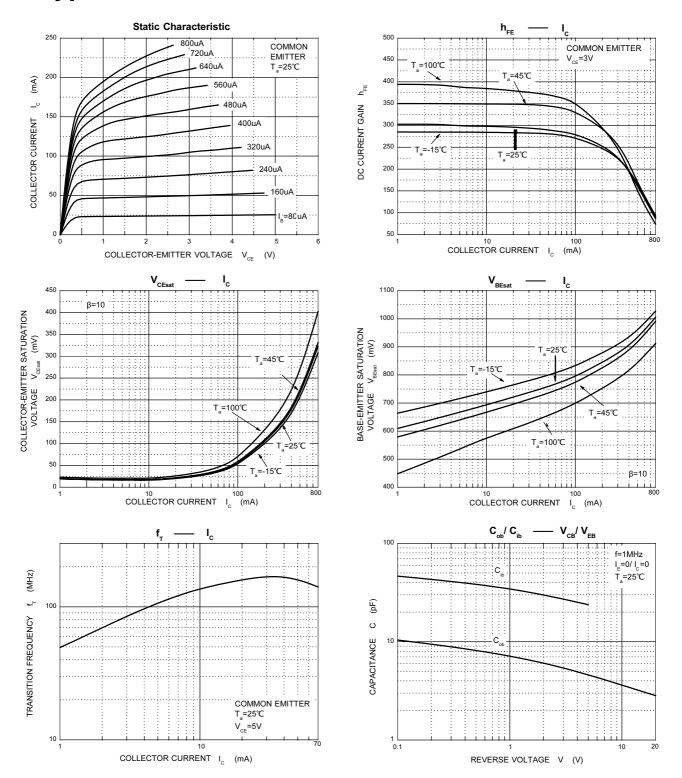
DIMENSIONS					
	INCHES		INCHES MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
O	.500		12.70		
D	.016	.020	0.41	0.63	
П	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

<sup>\*</sup> For ammo packing detailed specification, click here to visit our website of product packaging for details.



## **BC337**

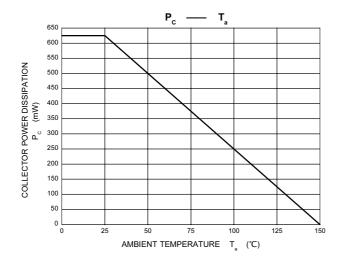
## **Typical Characterisitics**





# **BC337**

## **Typical Characterisitics**





## 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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**Authorized Distributor** 

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