

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_{CBO}=50V(BC337), V_{CBO}=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° 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)			Vdc
	BC333 BC334			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100µAdc, I _E =0)			Vdc
	BC333 BC334			
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =10µAdc, I _C =0)	5.0		Vdc
I _{CBO}			0.1 0.1	μAdc
I _{CEO}			0.2 0.2	μAdc
I _{EBO}	Emitter Cutoff Current (V _{ER} =4.0Vdc, I _C =0)		0.1	μAdc

ON CHARACTERISTICS

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

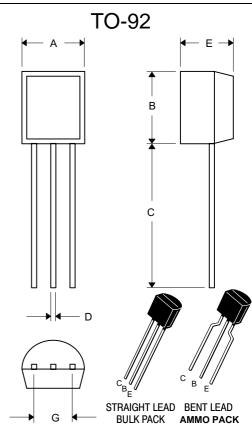
SMALL SIGNAL CHARACTERISTICS

f _⊤	Current-Gain-Bandwidth Product (V _{CE} =5.0V, f=100MHz, I _C =10mA)	210		MHz
$C_{\sf ob}$	Collector Output Capacitance (VCB=10V,IE=0,f=1MHZ)	15(TYP)		pF

hFE CLASSIFICATION

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

NPN Plastic-Encapsulate Transistors



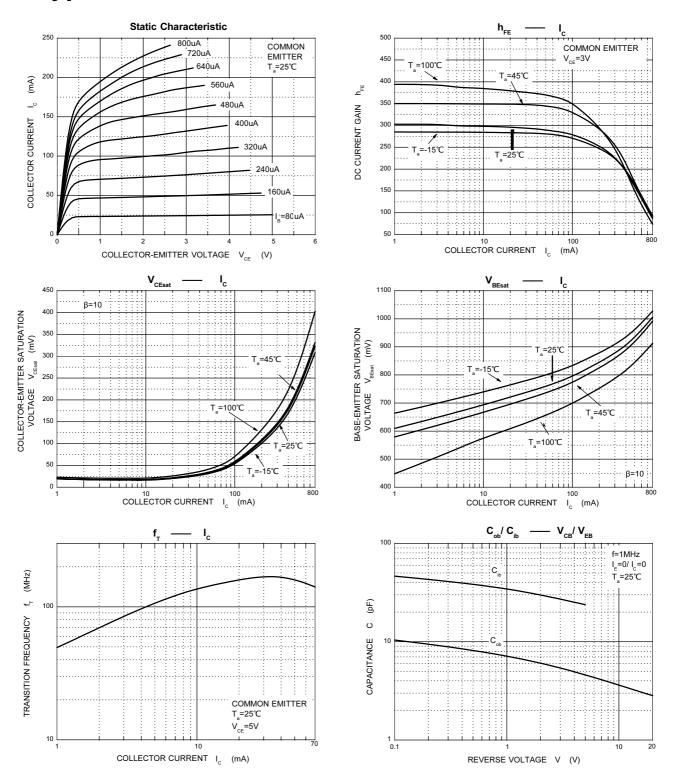
DIMENSIONS					
	INCHE	INCHES MM		IM	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
O	.500	-	12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.



BC337

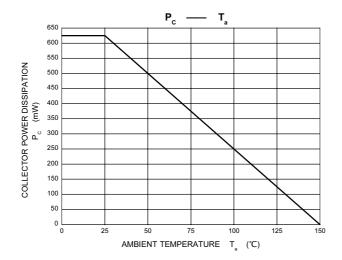
Typical Characterisitics





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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