

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
	BC33		45		
	BC33	8	25		
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100µAdc, I _E =0)				Vdc
	BC33	7	50		
	BC33	8	30		
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =10µAdc, I _C =0)		5.0		Vdc
I _{CBO}	Collector Cutoff Current				μAdc
	$(V_{CB}=45Vdc, I_{E}=0)$ BC33	7		0.1	
	$(V_{CB}=25Vdc,I_{E}=0)$ BC33	8		0.1	
I _{CEO}	Collector Cutoff Current				µAdc
	$(V_{CE}=40Vdc,I_{B}=0)$ BC33	7		0.2	
	(V _{CE} =20Vdc,I _B =0) BC338	3		0.2	
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)			

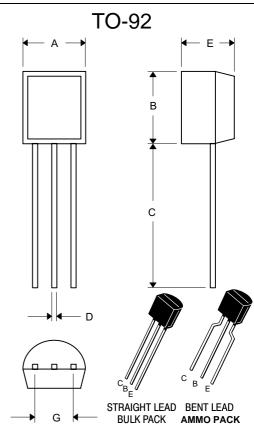
SMALL SIGNAL CHARACTERISTICS

CHIALL GIGNAL CHANACTLINGTION				
f _T	Current-Gain-Bandwidth Product	210		MHz
	$(V_{CE}=5.0V, f=100MHz, I_{C}=10mA)$			
C _{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



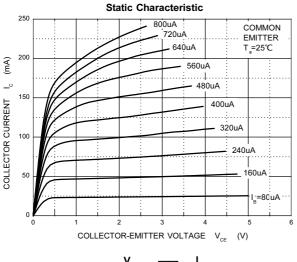
DIMENSIONS						
	INCHE	INCHES		HES MM		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.175	.185	4.45	4.70		
В	.175	.185	4.45	4.70		
O	.500		12.70			
D	.016	.020	0.41	0.63		
Е	.135	.145	3.43	3.68		
G	.095	.105	2.42	2.67	Straight Lead	
G	.173	.220	4.40	5.60	Bent Lead	

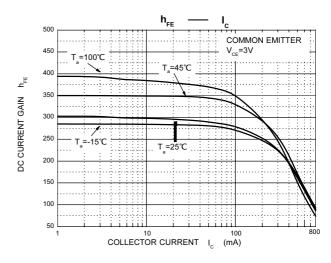
^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

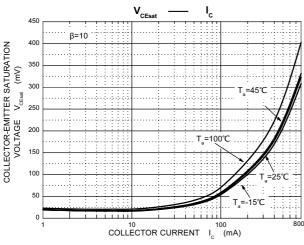


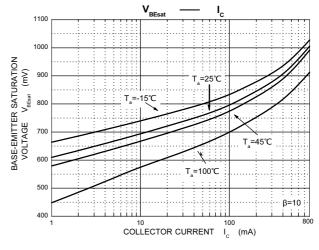
BC337

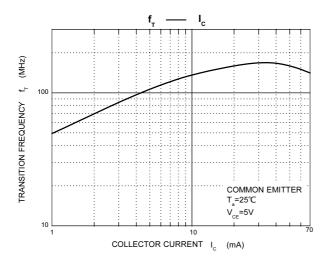
Typical Characterisitics

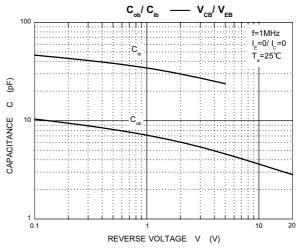








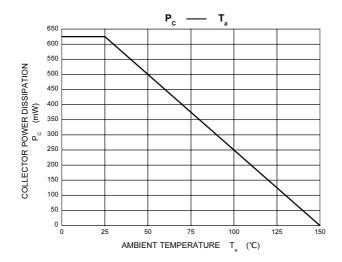






BC337

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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