

Micro Commercial Components



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

- 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

Symbol	Parameter	Min	Max	Units
OFF CHAR	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =10mAdc, I _B =0)			Vdc
	BC337	45		
	BC338	25		
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100µAdc, I _E =0)			Vdc
	BC337	50		
	BC338	30		
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =10µAdc, I _C =0)	5.0		Vdc
I _{CBO}	Collector Cutoff Current			μAdc
250	$(V_{CB}=45Vdc,I_{E}=0)$ BC337		0.1	'
	$(V_{CB}=25Vdc,I_{E}=0)$ BC338		0.1	
I _{CEO}	Collector Cutoff Current			μAdc
	$(V_{CE}=40Vdc,I_{B}=0)$ BC337		0.2	
	$(V_{CE}=20Vdc,I_{B}=0)$ BC338		0.2	
I _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)		0.1	μAdc

ON CHARACTERISTICS

h _{FE(2)}	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
, ,	$(I_0=500\text{m}\Delta dc I_0=50\text{m}\Delta dc)$			

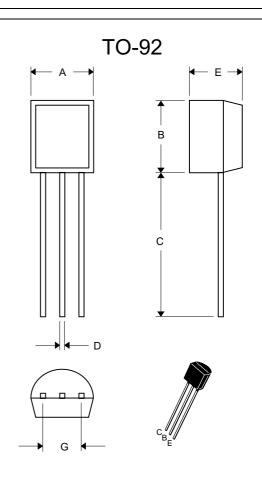
SMALL SIGNAL CHARACTERISTICS

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

hfe Classification

Classification	16	25	40
h _{FE(1)}	100~250	160~400	250~630
Marking Code	A 011	B 011	C 011

NPN Plastic-Encapsulate Transistors

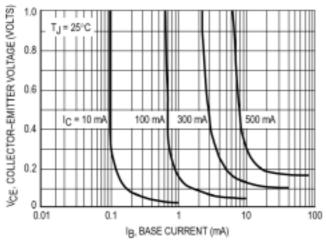


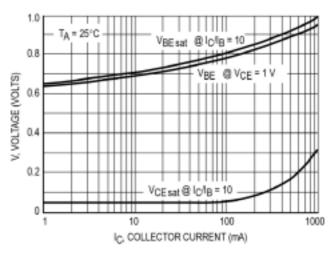
DIMENSIONS					
	INCHES		INCHES MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
Е	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	



Typical Characteristics

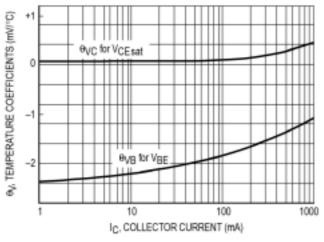
BC337

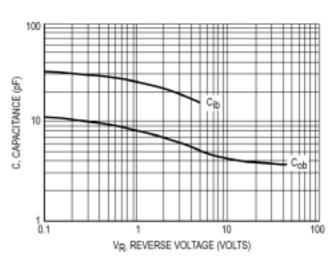




Saturation Region

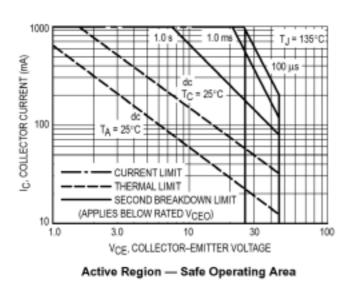
"On" Voltages

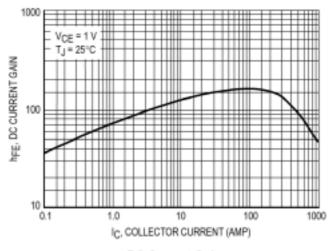




Temperature Coefficients

Capacitances





DC Current Gain



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Ordering Information:

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

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