



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components
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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
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating temperature : $-55^{\circ}C$ to $+150^{\circ}C$
- Storage temperature : $-55^{\circ}C$ to $+150^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10mA$, $I_B=0$)		---	Vdc
		BC337	45	
		BC338	25	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu A$, $I_E=0$)		---	Vdc
		BC337	50	
		BC338	30	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=10\mu A$, $I_C=0$)	5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=45Vdc$, $I_E=0$)		0.1	μA
		BC337	---	
		BC338	0.1	
I_{CEO}	Collector Cutoff Current ($V_{CE}=40Vdc$, $I_B=0$)		0.2	μA
		BC337	---	
		BC338	0.2	
I_{EBO}	Emitter Cutoff Current ($V_{EB}=4.0Vdc$, $I_C=0$)		0.1	μA
		BC337	---	
		BC338	0.1	

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_C=300mA$, $V_{CE}=1.0Vdc$)	60	---	--
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500mA$, $I_B=50mA$)	---	0.7	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=500mA$, $I_B=50mA$)	---	1.2	Vdc

SMALL SIGNAL CHARACTERISTICS

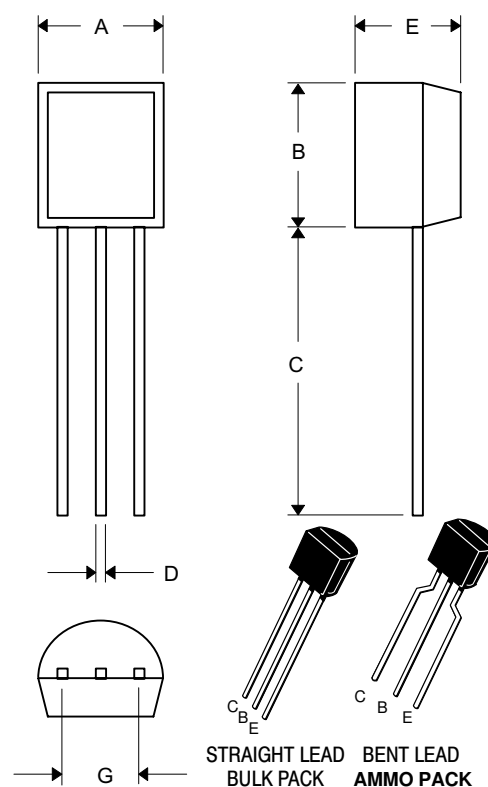
f_T	Current-Gain-Bandwidth Product ($V_{CE}=5.0V$, $f=100MHz$, $I_C=10mA$)	210	---	MHz
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hFE CLASSIFICATION

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

NPN Plastic-Encapsulate Transistors

TO-92



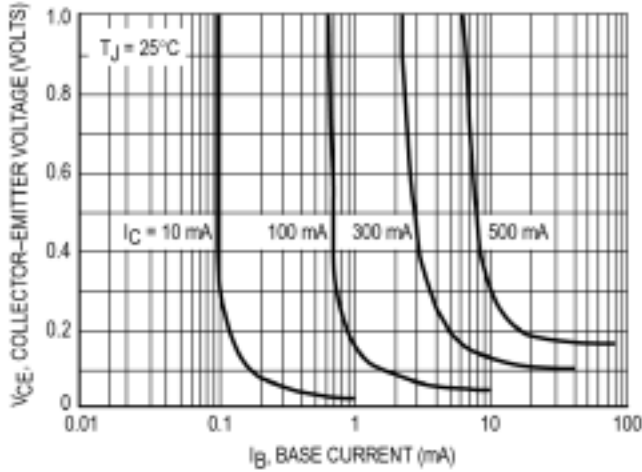
DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

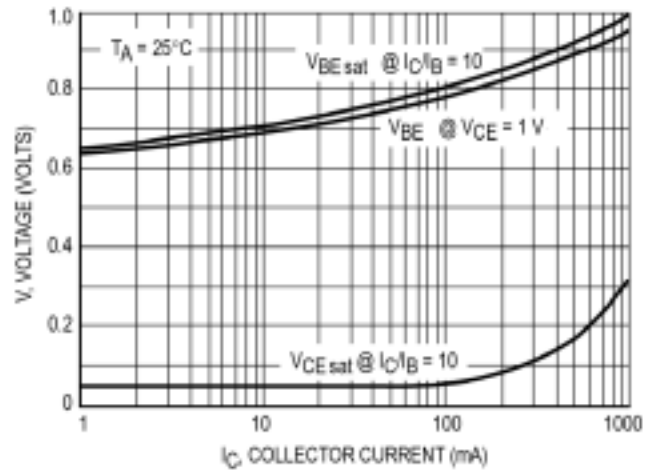
* For ammo packing detailed specification, click here to visit our website of product packaging for details.

Typical Characteristics

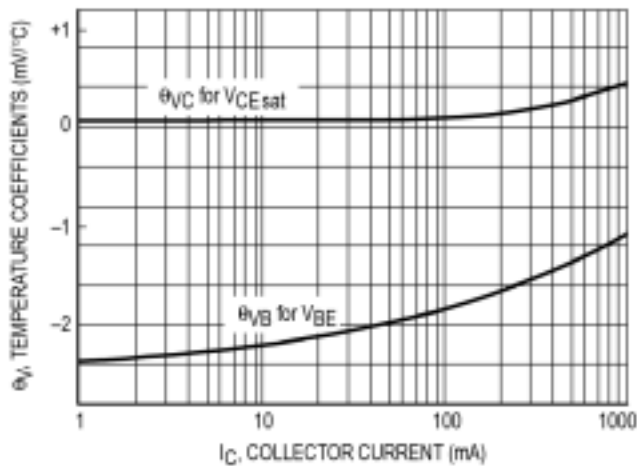
BC337



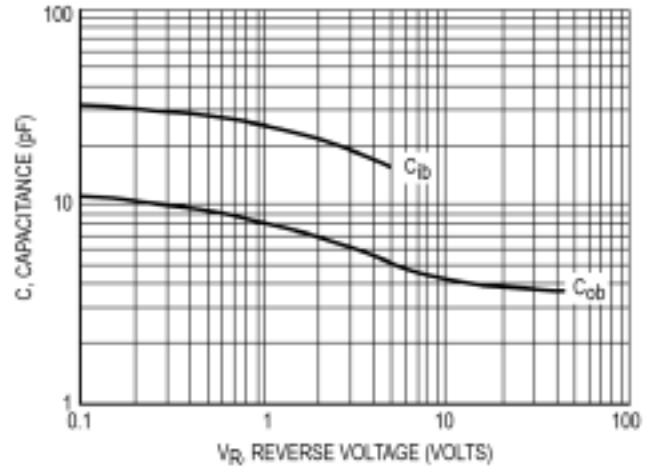
Saturation Region



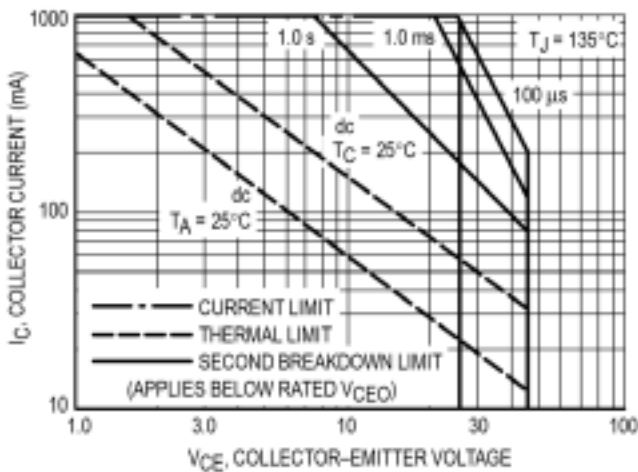
"On" Voltages



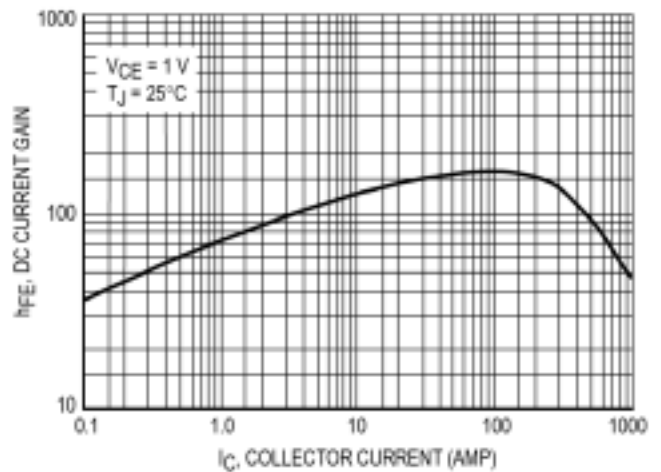
Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain



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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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