



Micro Commercial Components

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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

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

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

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

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

ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C=300mA$, $V_{CE}=1.0V$)	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

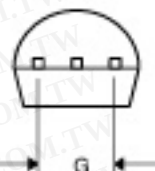
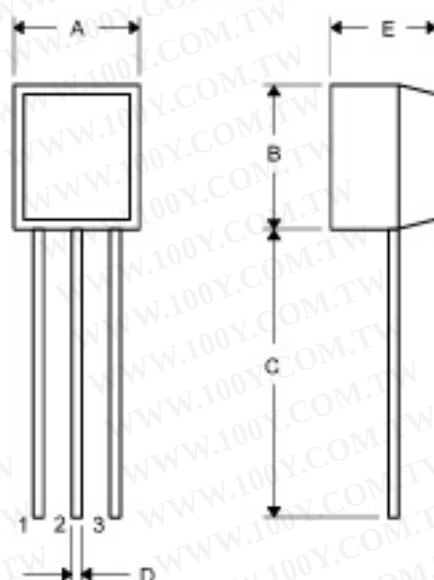
f_T	Current-Gain-Bandwidth Product ($V_{CE}=5.0V$, $f=100MHz$, $I_C=10mA$)	210	—	MHz
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hFE CLASSIFICATION

Classification	16	25	40
h_{FE}	100~250	160~400	250~630
Marking Code	A 011	B 011	C 011

NPN Plastic-Encapsulate Transistors

TO-92



- 1.COLLECTOR
- 2.BASE
- 3.EMITTER

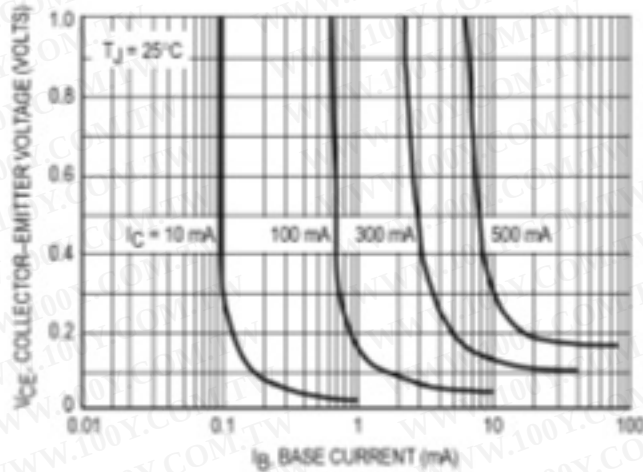
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.650	.680	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787

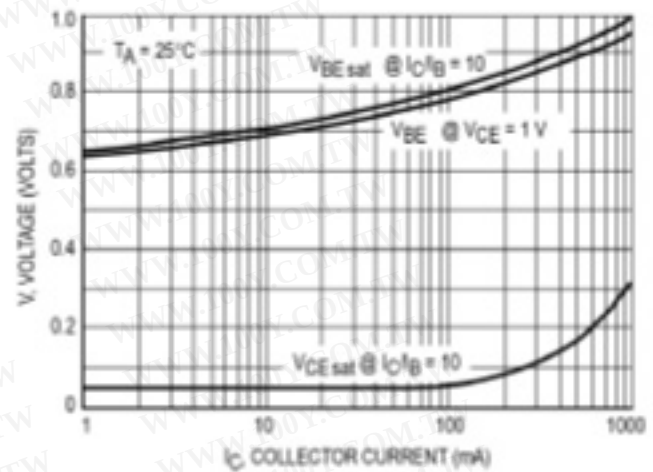
[Http://www.100y.com.tw](http://www.100y.com.tw)

Typical Characteristics

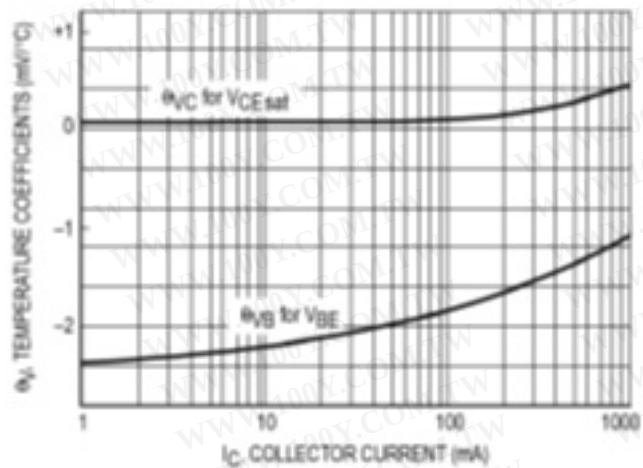
BC337



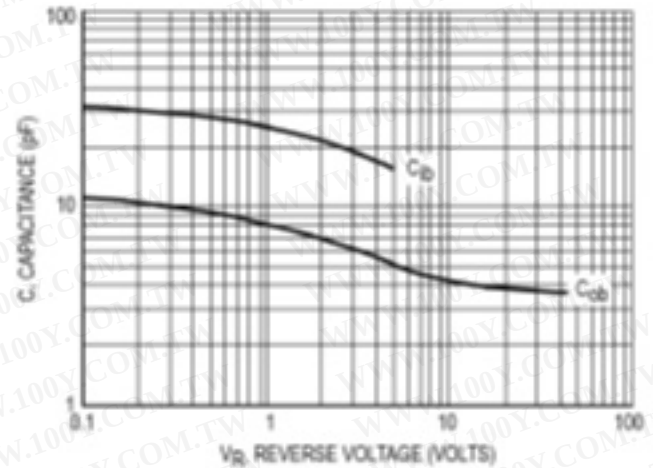
Saturation Region



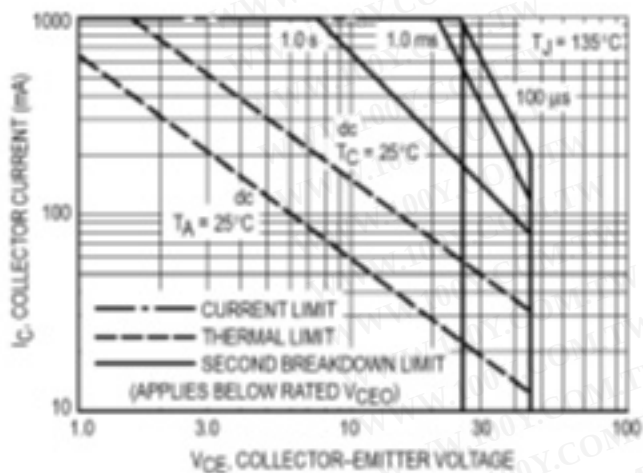
"On" Voltages



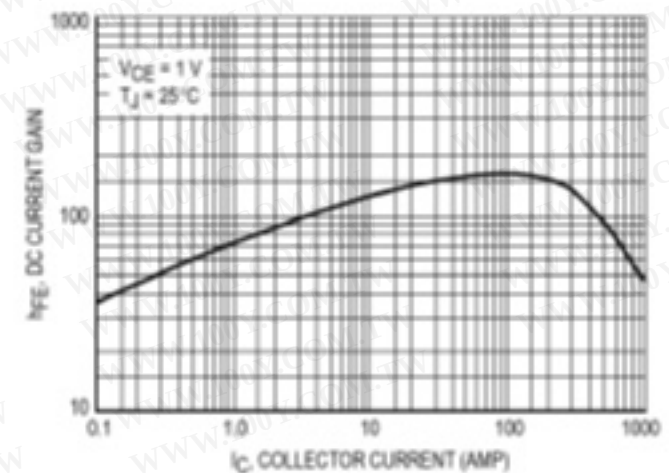
Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain



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