



Micro Commercial Components

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BC327
BC327-16/25/40
BC328
BC328-16/25/40

Features

- Capable of 0.625Watts of Power Dissipation.
- Collector-current : -0.8A
- Collector-base Voltage : $V_{CBO} = -50V$ (BC327) , $V_{CBO} = -30V$ (BC328)
- 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

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C = -10mA$, $I_B = 0$)	BC327 -45 BC328 -25	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -100\mu A$, $I_E = 0$)	BC327 -50 BC328 -30	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E = -10\mu A$, $I_C = 0$)	-5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB} = -45V$, $I_E = 0$) ($V_{CB} = -25V$, $I_E = 0$)	BC327 --- BC328 ---	-0.1 -0.1	μA
I_{CEO}	Collector Cutoff Current ($V_{CE} = -40V$, $I_B = 0$) ($V_{CE} = -20V$, $I_B = 0$)	BC327 --- BC328 ---	-0.2 -0.2	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB} = -4.0V$, $I_C = 0$)	---	-0.1	μA

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_C = -100mA$, $V_{CE} = -1.0V$)	100	630	---
$h_{FE(2)}$	DC Current Gain ($I_C = -300mA$, $V_{CE} = -1.0V$)	40	---	---
$V_{CE(sat)}$	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

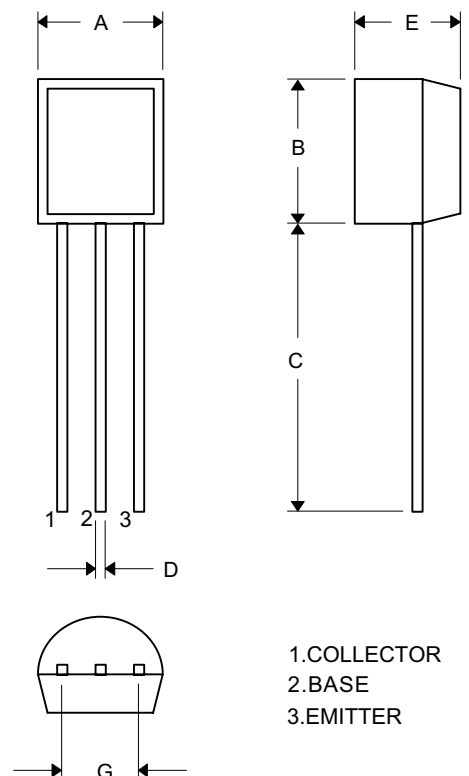
f_T	Current-Gain-Bandwidth Product ($V_{CE} = 5.0V$, $f = 100MHz$, $I_C = 10mA$)	260	---	MHz
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hFE CLASSIFICATION

Classification	16	25	40
$h_{FE(1)}$	100~250	160~400	250~630
Marking Code	A 011	B 001	C 001

PNP Plastic-Encapsulate Transistors

TO-92

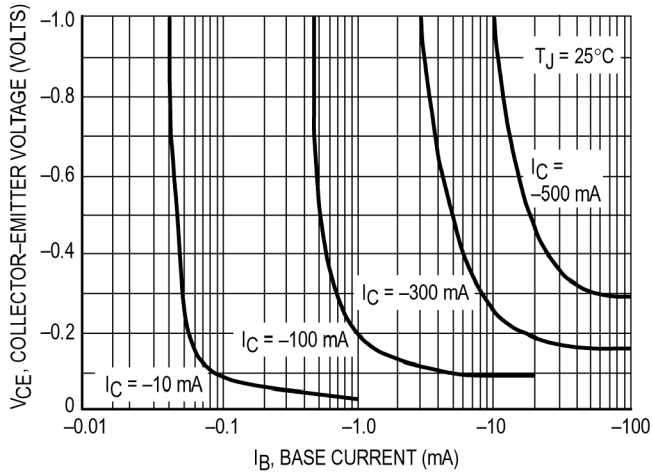


- 1.COLLECTOR
- 2.BASE
- 3.EMITTER

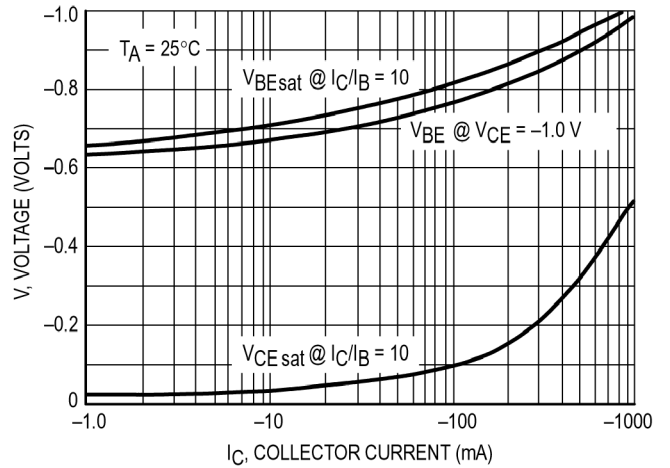
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

Typical Characteristics

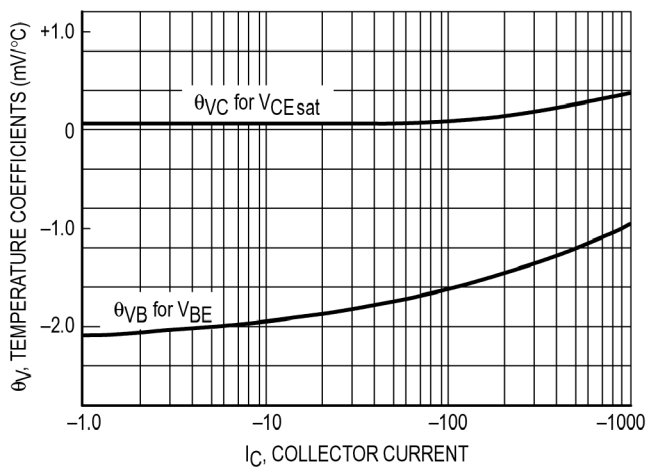
BC327



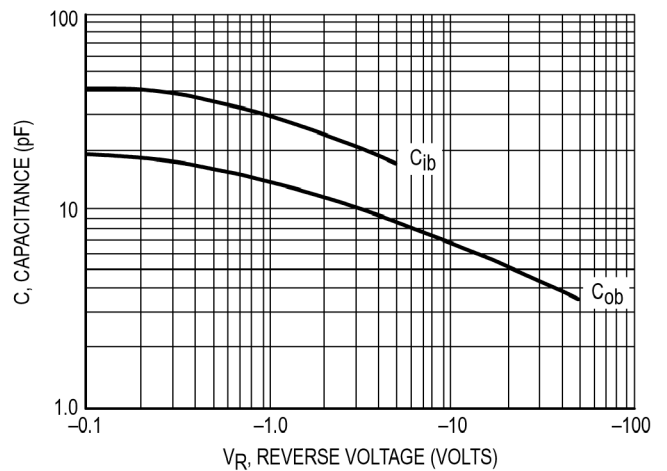
Saturation Region



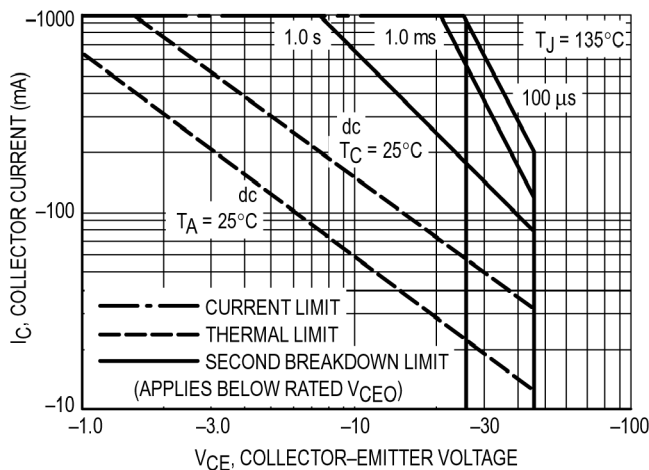
"On" Voltages



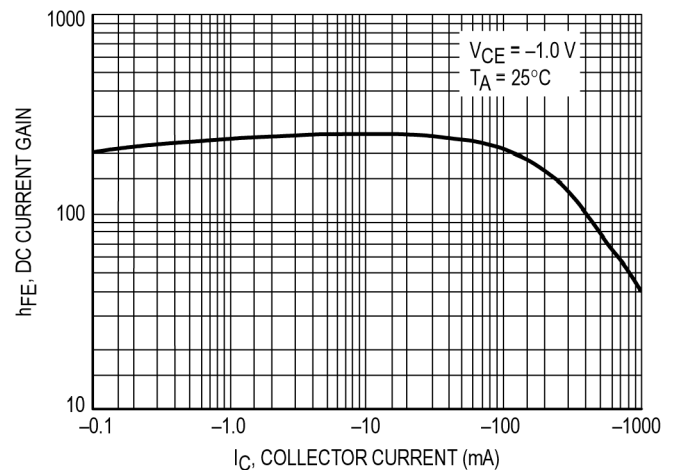
Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain

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