



Micro Commercial Components

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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

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°C to +150°C
- Storage temperature : -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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 ($I_E=-10mA$, $I_C=0$)	-5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-45V$, $I_E=0$) ($V_{CB}=-25V$, $I_E=0$)	---	BC327 -0.1 BC328 -0.1	μA
I_{CEO}	Collector Cutoff Current ($V_{CE}=-40V$, $I_B=0$) ($V_{CE}=-20V$, $I_B=0$)	---	BC327 -0.2 BC328 -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

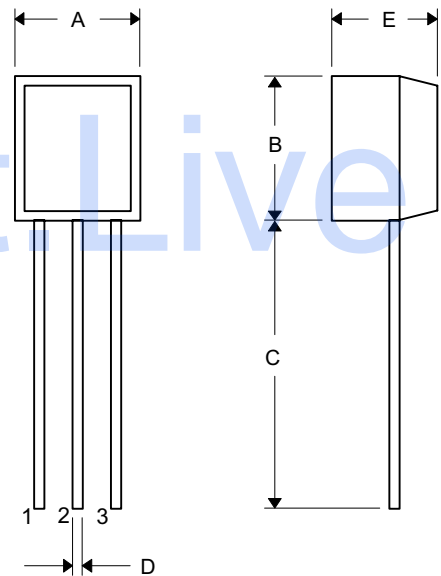
f_T	Current-Gain-Bandwidth Product ($V_{CE}=5.0V$, $f=100MHz$, $I_C=10mA$)	260	---	MHz
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hFE CLASSIFICATION

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

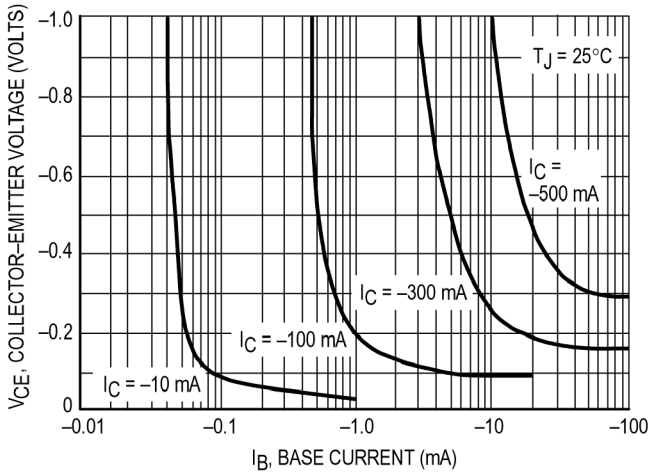


1.COLLECTOR
2.BASE
3.EMITTER

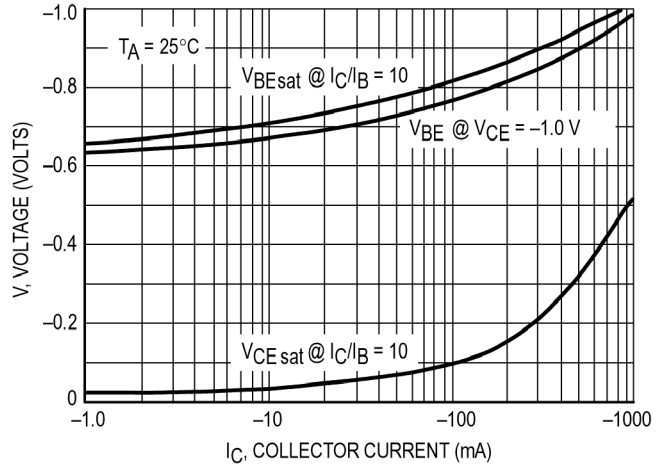
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

Typical Characteristics

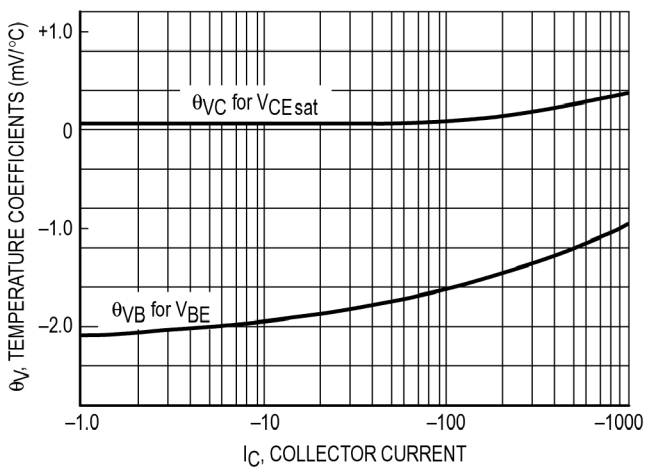
BC327



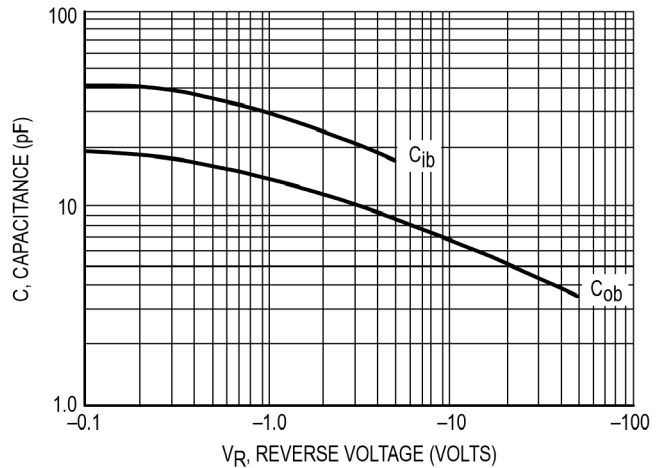
Saturation Region



"On" Voltages



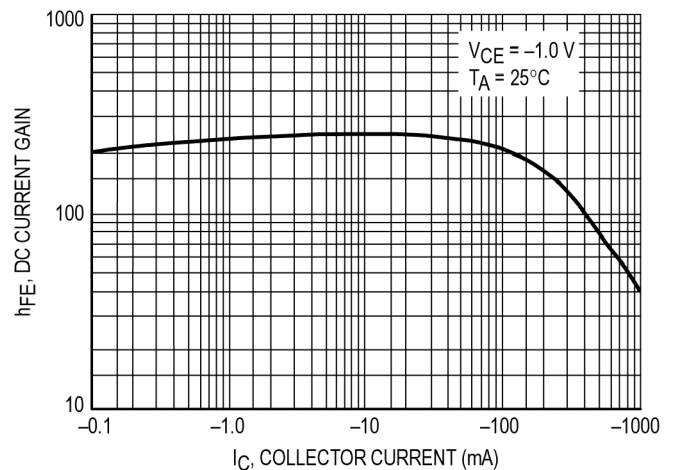
Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain



TM

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