



Micro Commercial Components
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**BC327-16/25/40
BC328-16/25/40**

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 0.625Watts of Power Dissipation.
- Collector-current : -0.8A
- Collector-base Voltage : $V_{CBO} = -50V$ (BC327) , $V_{CBO} = -30V$ (BC328)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_C = -100\text{mA}$, $V_{CE} = -1.0\text{Vdc}$)	100	630	---
$h_{FE(2)}$	DC Current Gain ($I_C = -300\text{mA}$, $V_{CE} = -1.0\text{Vdc}$)	40	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -500\text{mA}$, $I_B = -50\text{mA}$)	---	-0.7	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C = -500\text{mA}$, $I_B = -50\text{mA}$)	---	-1.2	Vdc

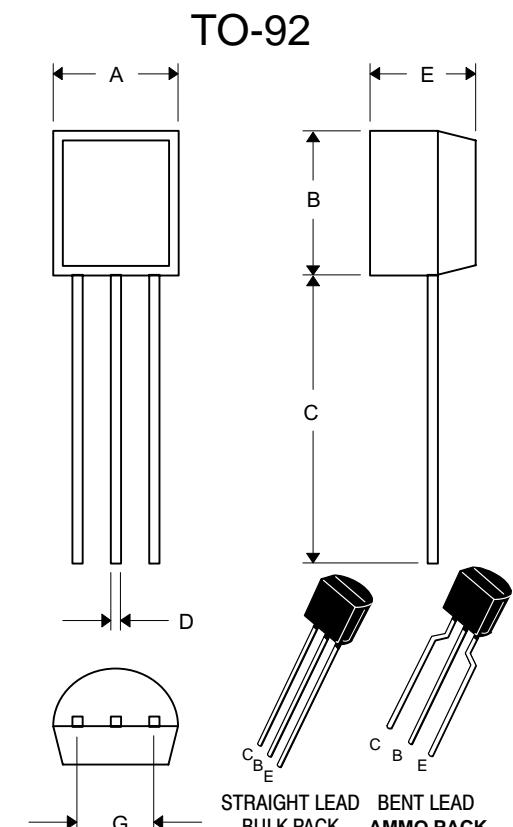
SMALL SIGNAL CHARACTERISTICS

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

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

PNP Plastic-Encapsulate Transistors

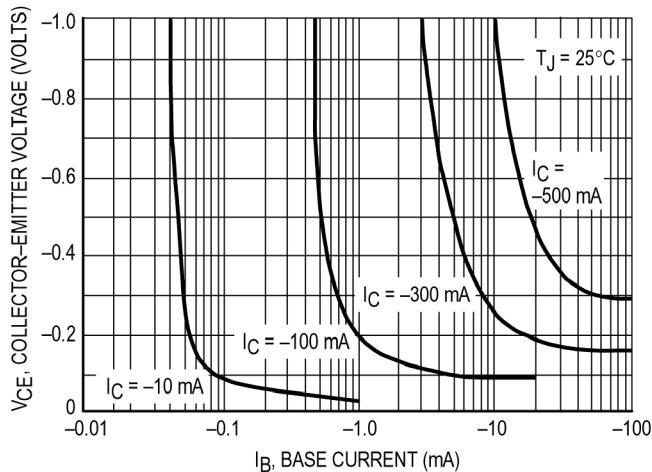


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	--	12.70	--	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

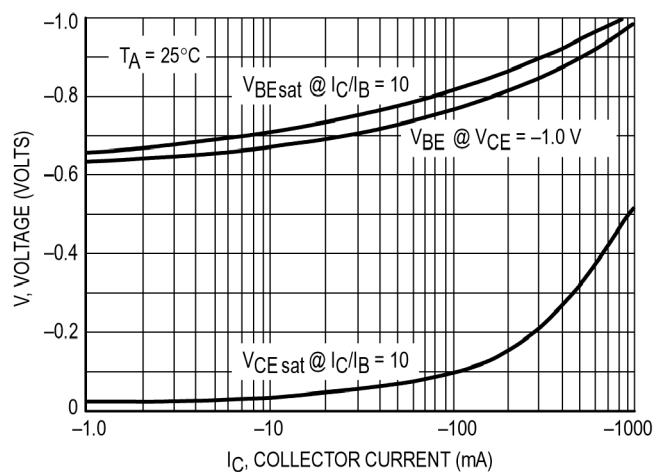
* For ammo packing detailed specification, click here to visit our website of product packaging for details.

Typical Characteristics

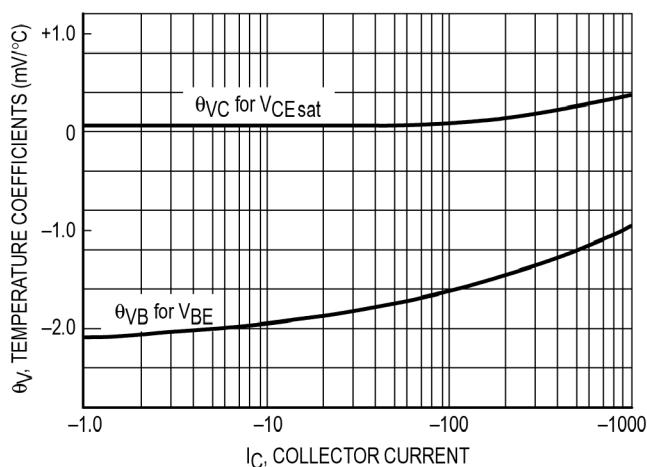
BC327



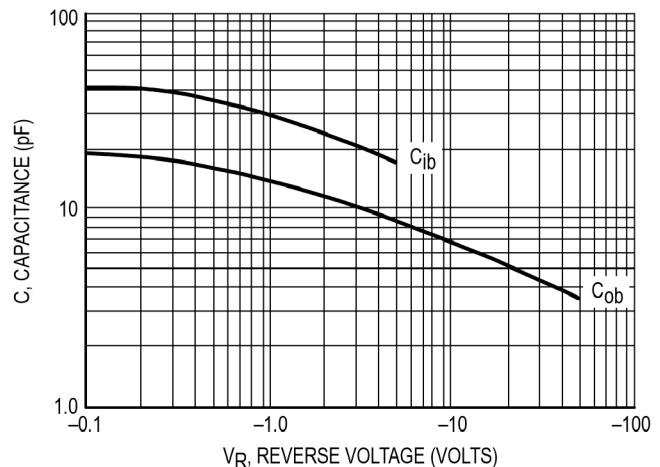
Saturation Region



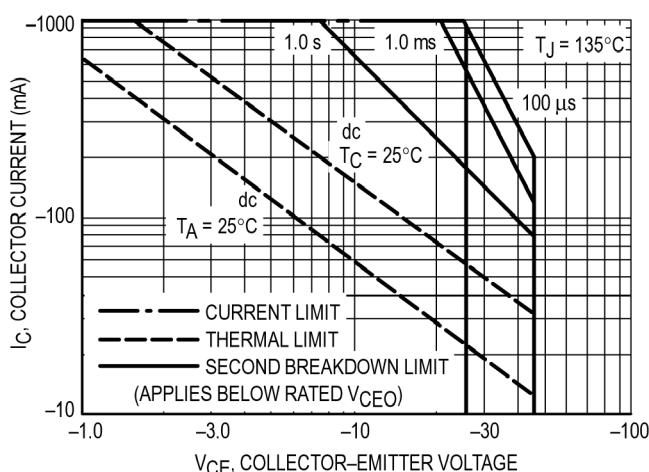
"On" Voltages



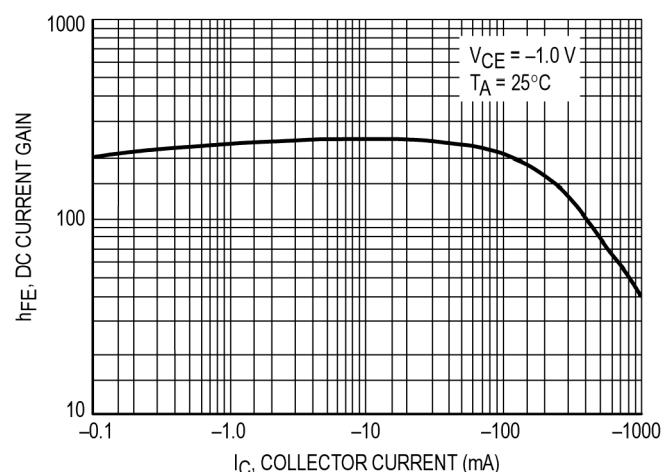
Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain



TM

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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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