



**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
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

## 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 ( $I_C = -10mA$ , $I_B = 0$ )	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 ( $I_E = -10\mu A$ , $I_C = 0$ )	---	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB} = -45V$ , $I_E = 0$ ) ( $V_{CB} = -25V$ , $I_E = 0$ )	BC327 ---	-0.1 -0.1	$\mu A$
$I_{CEO}$	Collector Cutoff Current ( $V_{CE} = -40V$ , $I_B = 0$ ) ( $V_{CE} = -20V$ , $I_B = 0$ )	BC327 ---	-0.2 -0.2	$\mu A$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB} = -4.0V$ , $I_C = 0$ )	---	-0.1	$\mu A$

#### 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

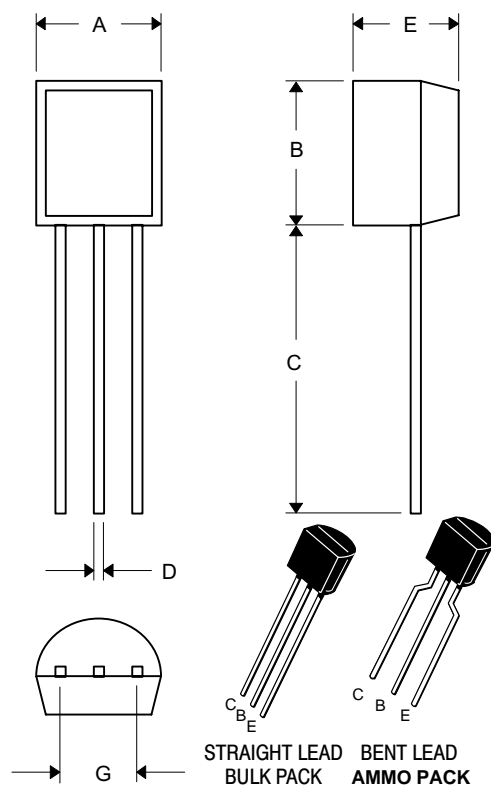
$f_T$	Current-Gain-Bandwidth Product ( $V_{CE} = 5.0V$ , $f = 100MHz$ , $I_C = 10mA$ )	260	---	MHz
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#### hFE CLASSIFICATION

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

## PNP Plastic-Encapsulate Transistors

### TO-92



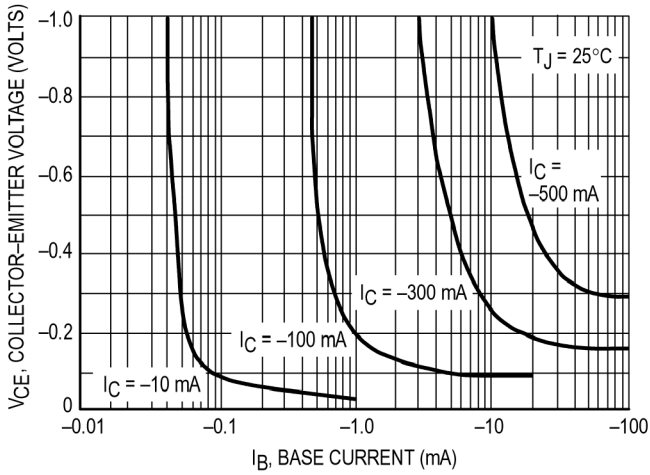
#### DIMENSIONS

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

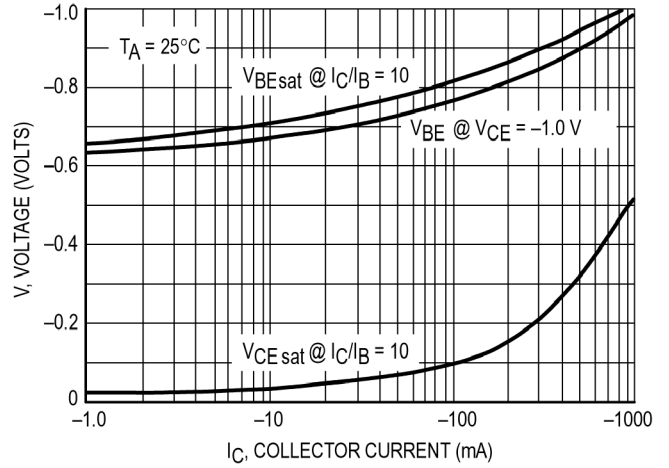
\* For ammo packing detailed specification, click here to visit our website of product packaging for details.

Typical Characteristics

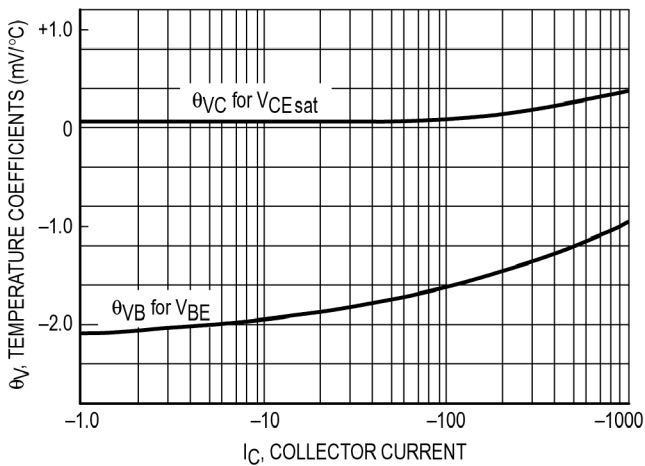
BC327



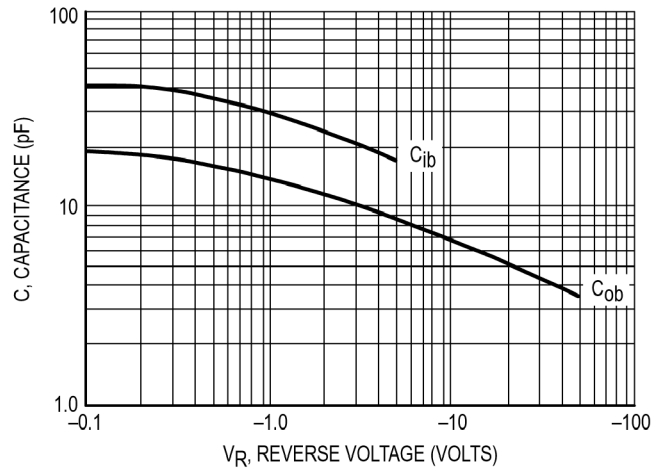
Saturation Region



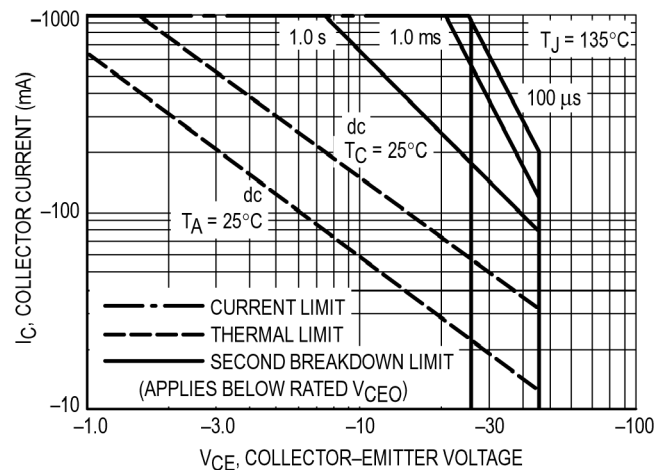
"On" Voltages



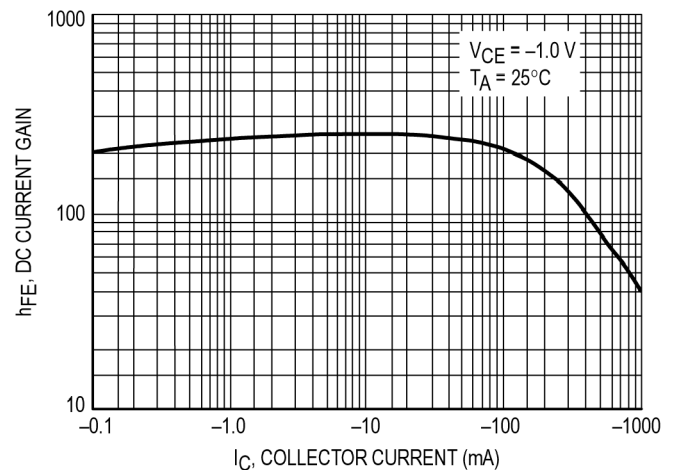
Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain



Micro Commercial Components

### 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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