



**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

**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
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**OFF CHARACTERISTICS**

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

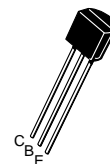
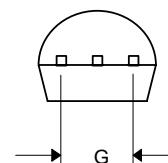
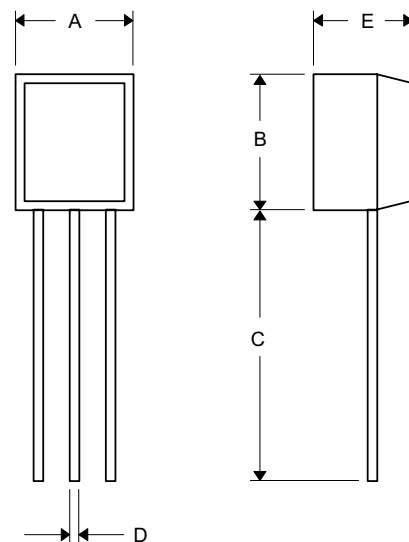
$f_T$	Current-Gain-Bandwidth Product ( $V_{CE} = 5.0V$ , $f = 100MHz$ , $I_C = 10mA$ )		260	---	MHz
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**hFE CLASSIFICATION**

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**

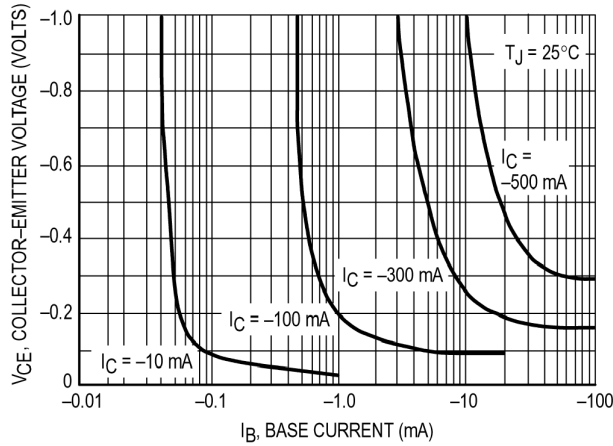
**TO-92**



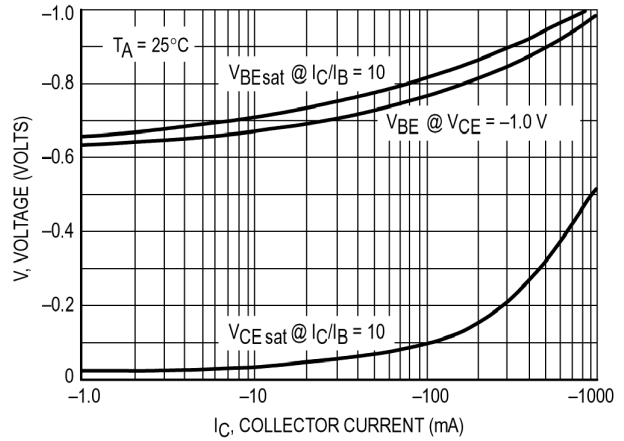
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

Typical Characteristics

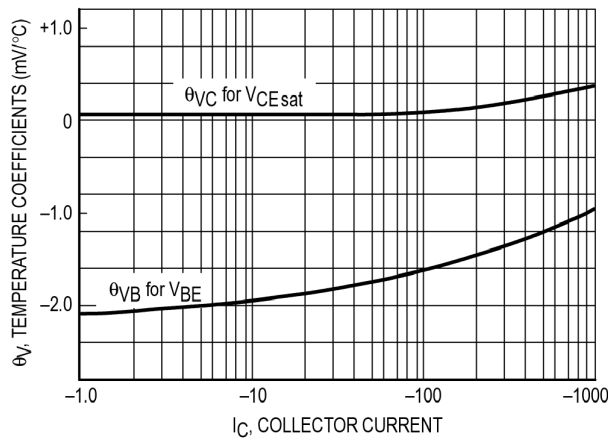
BC327



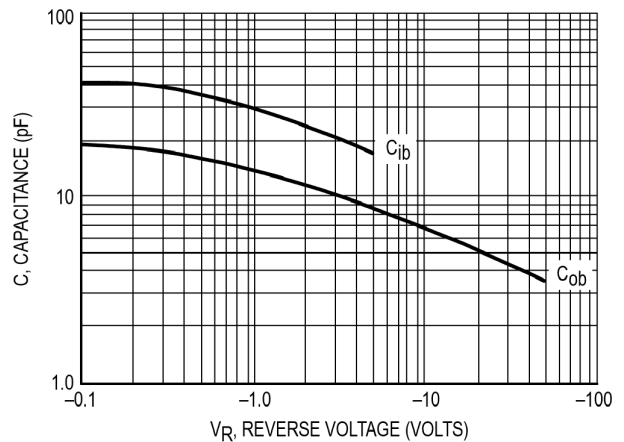
Saturation Region



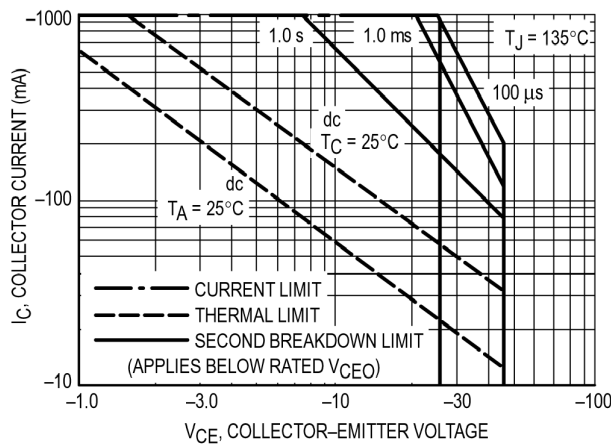
"On" Voltages



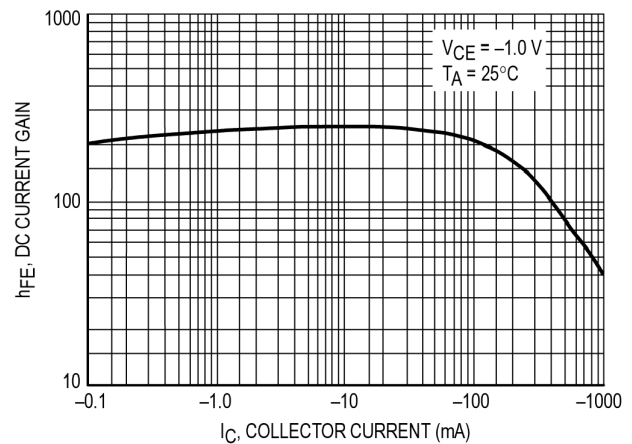
Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain



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### Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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