



Micro Commercial Components

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

**PNP**  
**Plastic-Encapsulate**  
**Transistors**

**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 and MSL rating 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)

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

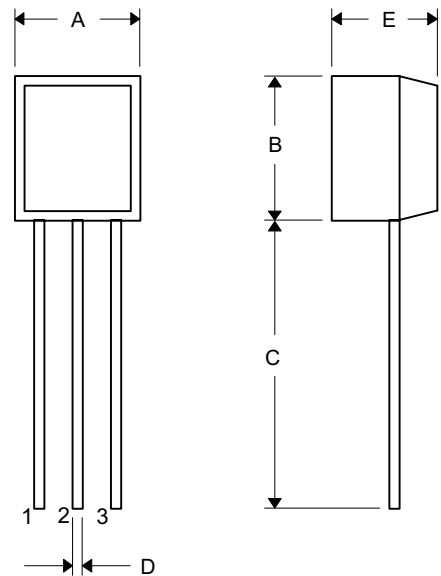
**SMALL SIGNAL CHARACTERISTICS**

$f_T$	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

**TO-92**

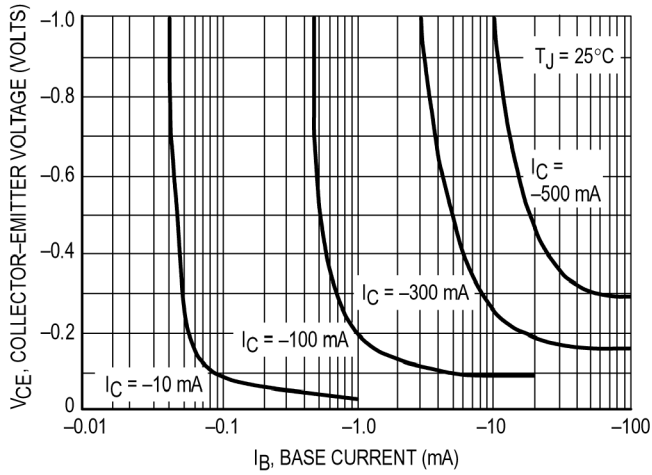


- 1.COLLECTOR
- 2.BASE
- 3.EMITTER

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

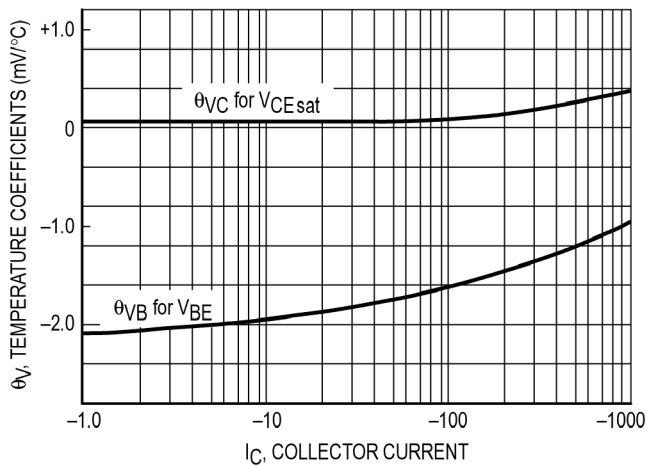
BC327



Saturation Region



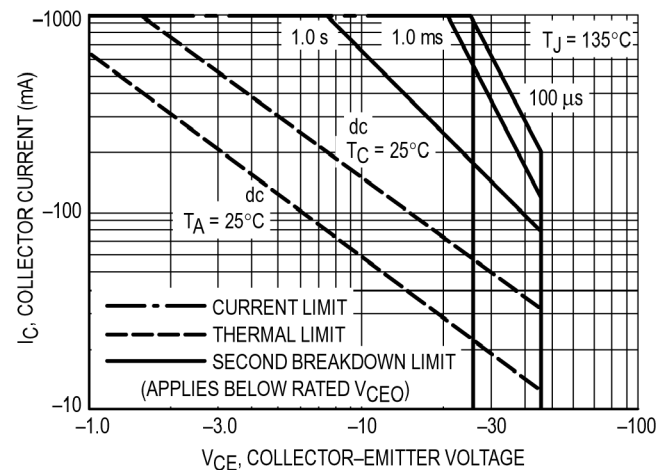
"On" Voltages



Temperature Coefficients



Capacitances



Active Region — Safe Operating Area



DC Current Gain



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## Ordering Information

Device	Packing
(Part Number)-AP	Ammo Packing;2Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Bag

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