

# M.C.C.

Micro Commercial Components

## BC327-16/25/40 BC328-16/25/40

### Features

- Capable of 0.625Watts of Power Dissipation.
- Collector-current : -0.8A
- Collector-base Voltage :  $V_{CB0} = -50V$ (BC327) ,  $V_{CB0} = -30V$ (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 :  $-55^{\circ}C$  to  $+150^{\circ}C$
- Storage temperature :  $-55^{\circ}C$  to  $+150^{\circ}C$

### Electrical Characteristics @ $25^{\circ}C$ 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
$V_{BR(EBV)}$	Collector-Emitter Breakdown Voltage ( $I_C = -10\mu A$ , $I_E = 0$ )	---	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CE} = -45V$ dc, $I_B = 0$ ) ( $V_{CB} = -25V$ dc, $I_E = 0$ )	BC327 ---	-0.1 -0.1	$\mu A$ dc
$I_{CEO}$	Collector Cutoff Current ( $V_{CE} = -40V$ dc, $I_B = 0$ ) ( $V_{CB} = -20V$ dc, $I_E = 0$ )	BC327 ---	-0.2 -0.2	$\mu A$ dc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB} = -4.0V$ dc, $I_C = 0$ )	---	-0.1	$\mu A$ dc

#### ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ( $I_C = -100mA$ , $V_{CE} = -1.0V$ dc)	100	630	---
$h_{FE(2)}$	DC Current Gain ( $I_C = -300mA$ , $V_{CE} = -1.0V$ dc)	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

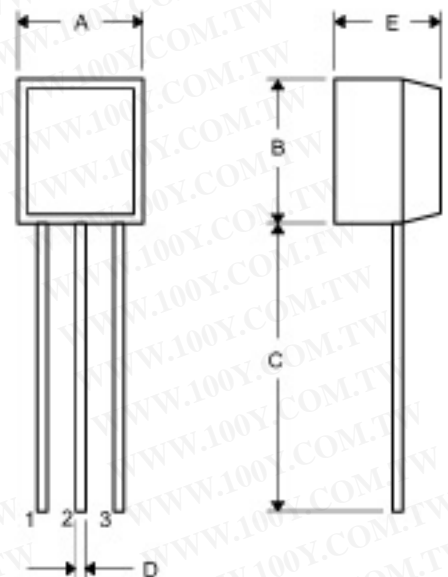
$f_T$	Current-Gain-Bandwidth Product ( $V_{CE} = 5.0V$ , $f = 100MHz$ , $I_C = 10mA$ )	280	---	MHz
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#### hFE CLASSIFICATION

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



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

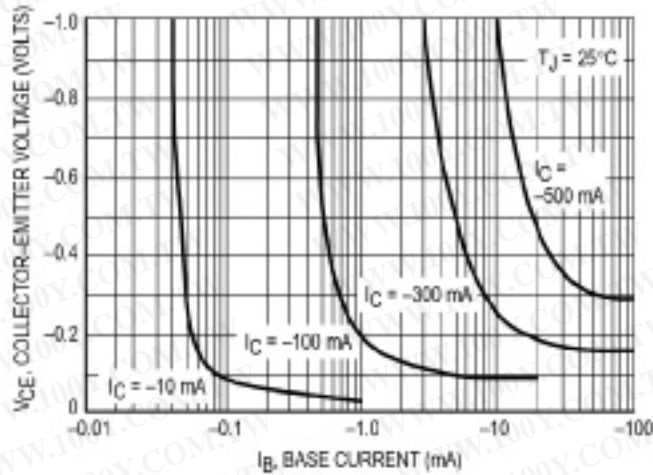
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.850	.890	13.97	14.97	
D	.010	.020	0.38	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787

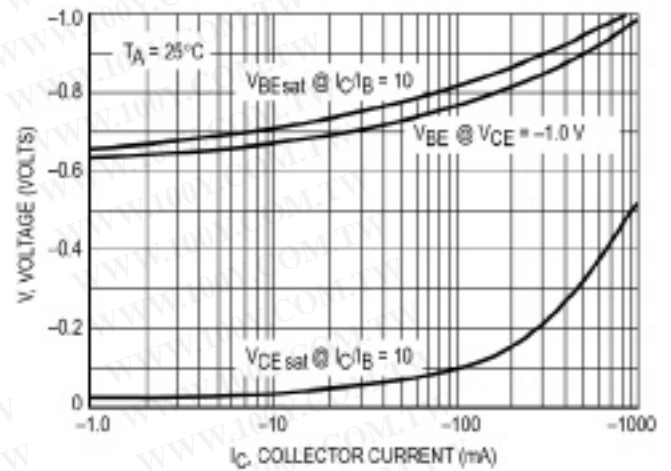
[Http://www.100y.com.tw](http://www.100y.com.tw)

## Typical Characteristics

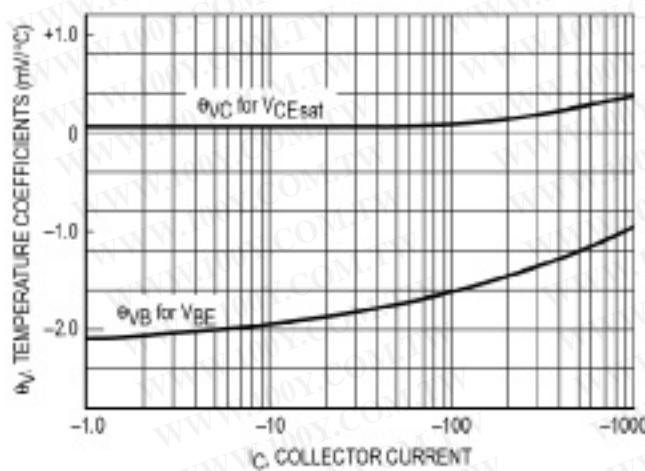
## BC327



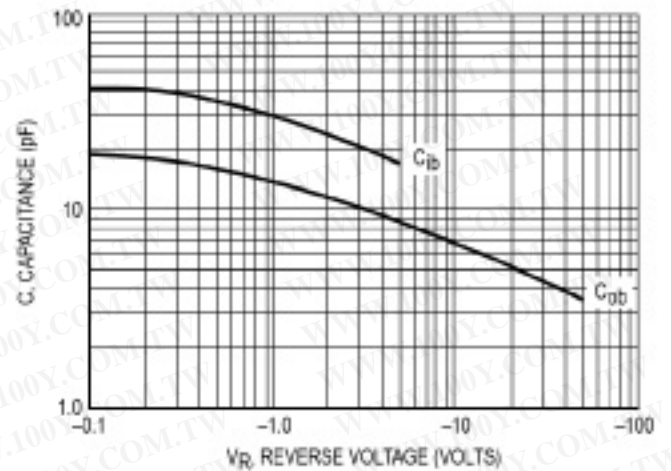
Saturation Region



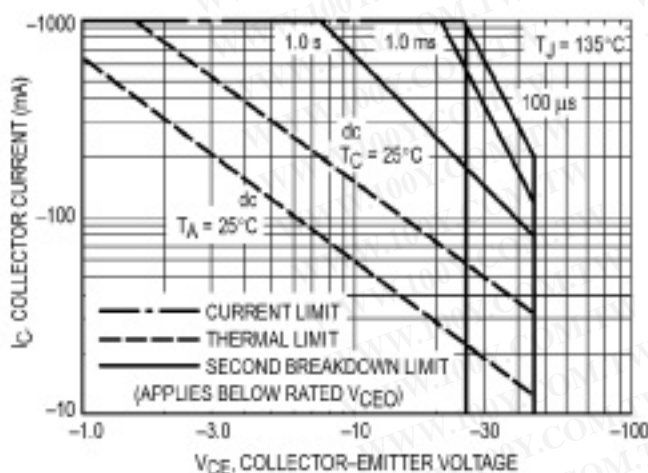
"On" Voltages



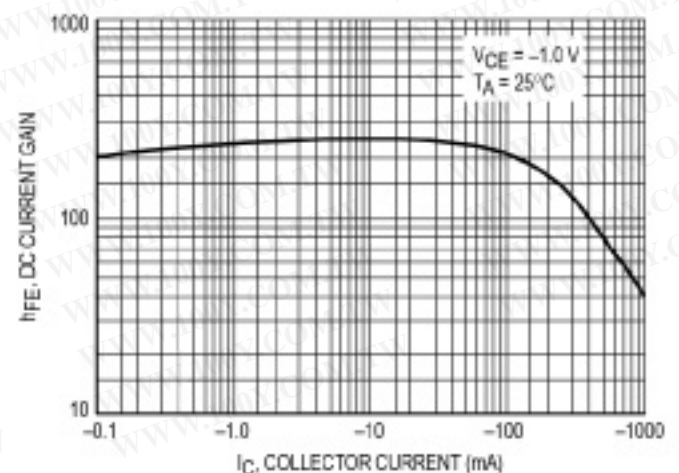
Temperature Coefficients



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

### \*\*\*IMPORTANT NOTICE\*\*\*

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