ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic		Symbol	Min	Typ	Max	Unit
OFF CHARACTERISTICS						
Collector − Emitter Breakdown Voltage (I_C = −10 mA, I_B = 0)		$V_{(BR)CEO}$	−45	−	−	Vdc
Collector − Emitter Breakdown Voltage (I_C = −100 μA, I_E = 0)		$V_{(BR)CES}$	−50	−	−	Vdc
Emitter − Base Breakdown Voltage (I_E = −10 μA, I_C = 0)		$V_{(BR)EBO}$	−5.0	−	−	Vdc
Collector Cutoff Current (V_{CB} = −30 V, I_E = 0)		I_{CBO}	−	−	−100	nAdc
Collector Cutoff Current (V_{CE} = −45 V, V_{BE} = 0)		I_{CES}	−	−	−100	nAdc
Emitter Cutoff Current (V_{EB} = −4.0 V, I_C = 0)		I_{EBO}	−	−	−100	nAdc
ON CHARACTERISTICS						
DC Current Gain (I_C = −100 mA, V_{CE} = −1.0 V)	BC327	h_{FE}	100	−	630	−
	BC327−16		100	−	250	
	BC327−25		160	−	400	
	BC327−40		250	−	630	
(I_C = −300 mA, V_{CE} = −1.0 V)			40	−	−	
Base−Emitter On Voltage (I_C = −300 mA, V_{CE} = −1.0 V)		$V_{BE(on)}$	−	−	−1.2	Vdc
Collector − Emitter Saturation Voltage (I_C = −500 mA, I_B = −50 mA)		$V_{CE(sat)}$	−	−	−0.7	Vdc
SMALL−SIGNAL CHARACTERISTICS						
Output Capacitance (V_{CB} = −10 V, I_E = 0, f = 1.0 MHz)		C_{ob}	−	11	−	pF
Current − Gain − Bandwidth Product (I_C = −10 mA, V_{CE} = −5.0 V, f = 100 MHz)		f_T	−	260	−	MHz

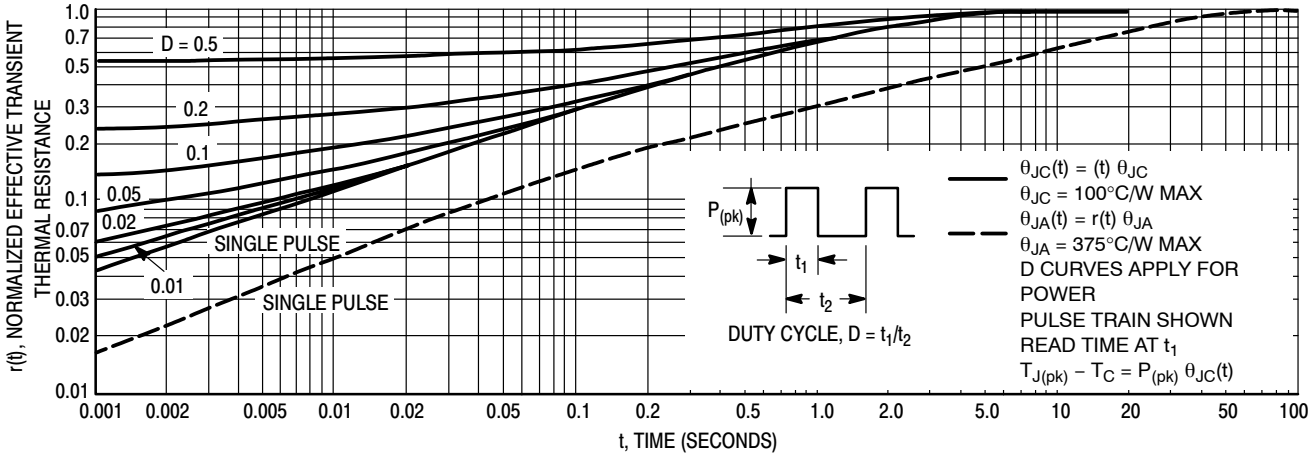


Figure 1. Thermal Response

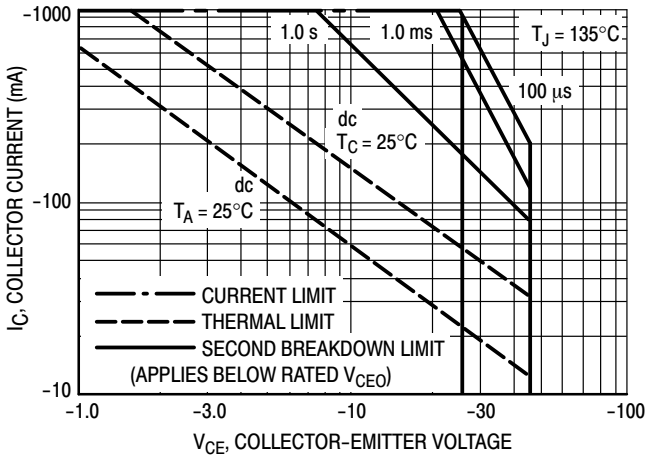


Figure 2. Active Region − Safe Operating Area

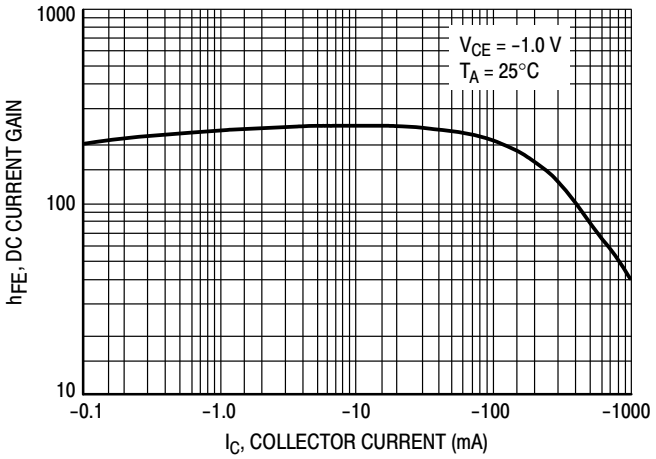


Figure 3. DC Current Gain

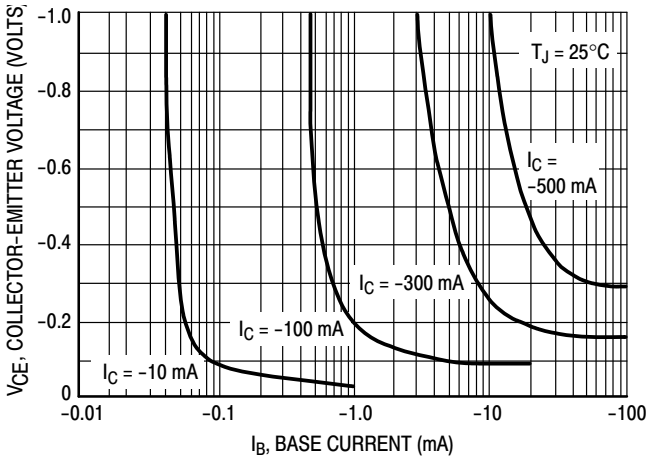


Figure 4. Saturation Region

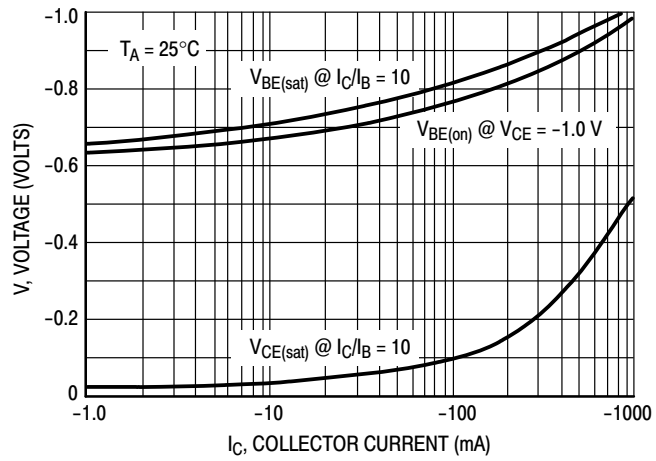


Figure 5. “On” Voltages

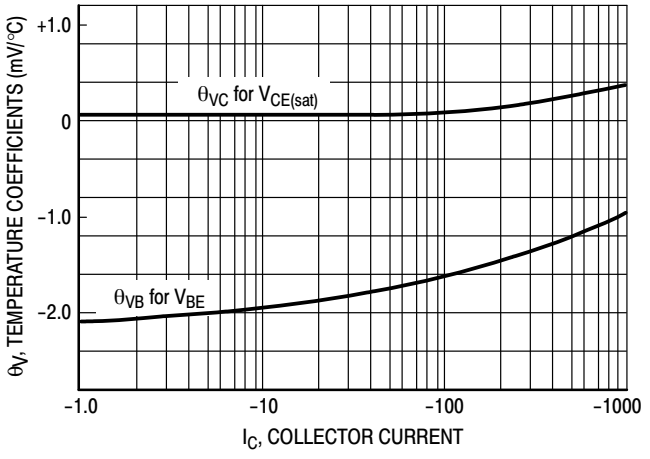


Figure 6. Temperature Coefficients

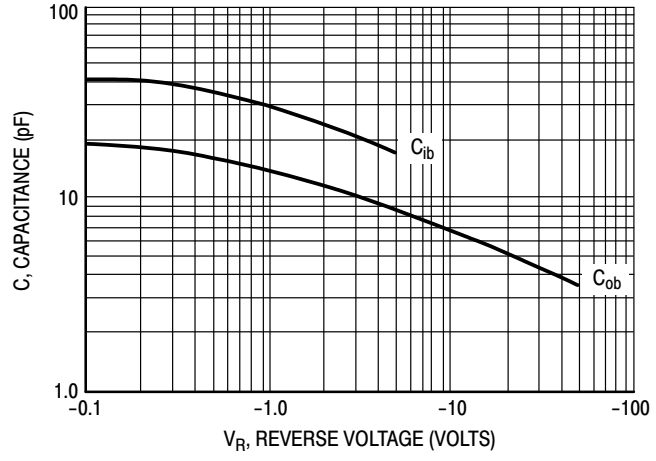


Figure 7. Capacitances

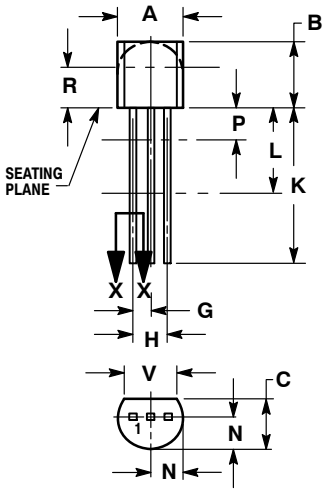
ORDERING INFORMATION

Device Order Number	Specific Device Marking	Package Type	Shipping†
BC327G	7	TO−92 Straight Lead (Pb−Free)	5000 Units / Bulk
BC327RL1G	327	TO−92 Bent Lead (Pb−Free)	2000 / Tape & Reel
BC327−025G	327	TO−92 Straight Lead (Pb−Free)	5000 Units / Bulk
BC327−25RL1G	7−25	TO−92 Bent Lead (Pb−Free)	2000 / Tape & Reel
BC327−25ZL1G	32725	TO−92 Bent Lead (Pb−Free)	2000 / Tape & Ammo Box
BC327−40ZL1G	7−40	TO−92 Bent Lead (Pb−Free)	2000 / Tape & Ammo Box

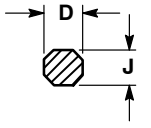
†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

PACKAGE DIMENSIONS

TO−92 (TO−226)
CASE 29−11
ISSUE AM



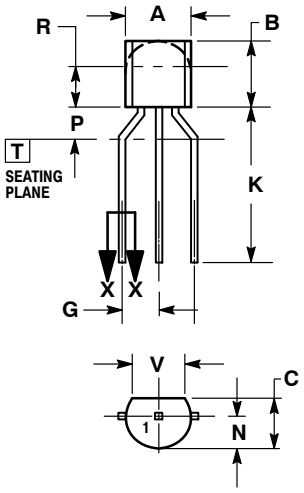
STRAIGHT LEAD
BULK PACK



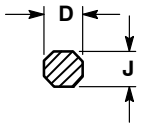
SECTION X−X

NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. CONTOUR OF PACKAGE BEYOND DIMENSION R IS UNCONTROLLED.
4. LEAD DIMENSION IS UNCONTROLLED IN P AND BEYOND DIMENSION K MINIMUM.

	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
A	0.175	0.205	4.45	5.20
B	0.170	0.210	4.32	5.33
C	0.125	0.165	3.18	4.19
D	0.016	0.021	0.407	0.533
G	0.045	0.055	1.15	1.39
H	0.095	0.105	2.42	2.66
J	0.015	0.020	0.39	0.50
K	0.500	---	12.70	---
L	0.250	---	6.35	---
N	0.080	0.105	2.04	2.66
P	---	0.100	---	2.54
R	0.115	---	2.93	---
V	0.135	---	3.43	---



BENT LEAD
TAPE & REEL
AMMO PACK



SECTION X−X

NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. CONTOUR OF PACKAGE BEYOND DIMENSION R IS UNCONTROLLED.
4. LEAD DIMENSION IS UNCONTROLLED IN P AND BEYOND DIMENSION K MINIMUM.

	MILLIMETERS	
DIM	MIN	MAX
A	4.45	5.20
B	4.32	5.33
C	3.18	4.19
D	0.40	0.54
G	2.40	2.80
J	0.39	0.50
K	12.70	---
N	2.04	2.66
P	1.50	4.00
R	2.93	---
V	3.43	---

STYLE 17:
PIN 1. COLLECTOR
2. BASE
3. EMITTER

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