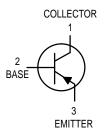
Amplifier Transistors

PNP Silicon





BC327,-16,-25 BC328,-16,-25

MAXIMUM RATINGS

Rating	Symbol	BC327	BC328	Unit
Collector-Emitter Voltage	VCEO	-45	-25	Vdc
Collector-Base Voltage	VCBO	-50	-30	Vdc
Emitter-Base Voltage	VEBO	-5.0		Vdc
Collector Current — Continuous	IC	-800		mAdc
Total Device Dissipation @ T _A = 25°C Derate above 25°C	PD	625 5.0		mW mW/°C
Total Device Dissipation @ T _C = 25°C Derate above 25°C	PD	1.5 12		Watt mW/°C
Operating and Storage Junction Temperature Range	Т _Ј , Т _{stg}	-55 to +150		°C

THERMAL CHARACTERISTICS

Characteristic	Symbol	Мах	Unit
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	200	°C/W
Thermal Resistance, Junction to Case	$R_{\theta}JC$	83.3	°C/W

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted)

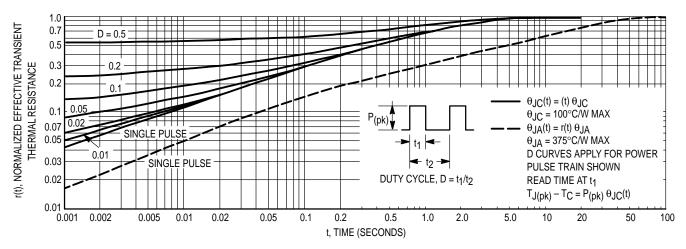
Characteristic		Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS						
Collector-Emitter Breakdown Voltage ($I_C = -10 \text{ mA}, I_B = 0$)	BC327 BC328	V(BR)CEO	-45 -25			Vdc
Collector – Emitter Breakdown Voltage (I _C = –100 μ A, I _E = 0)	BC327 BC328	V(BR)CES	-50 -30			Vdc
Emitter-Base Breakdown Voltage $(I_E = -10 \ \mu A, I_C = 0)$		V(BR)EBO	-5.0	_	_	Vdc
Collector Cutoff Current ($V_{CB} = -30 \text{ V}, I_E = 0$) ($V_{CB} = -20 \text{ V}, I_E = 0$)	BC327 BC328	СВО	_		-100 -100	nAdc
Collector Cutoff Current ($V_{CE} = -45 \text{ V}, V_{BE} = 0$) ($V_{CE} = -25 \text{ V}, V_{BE} = 0$)	BC327 BC328	ICES			-100 -100	nAdc
Emitter Cutoff Current ($V_{EB} = -4.0 \text{ V}, I_C = 0$)		IEBO	_	—	-100	nAdc



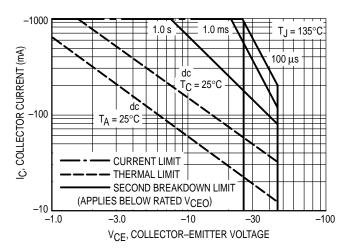
BC327,-16,-25 BC328,-16,-25

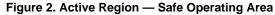
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted) (Continued)

		, , , ,				
Characteristic		Symbol	Min	Тур	Max	Unit
ON CHARACTERISTICS			•			
DC Current Gain (I _C = -100 mA, V _{CE} = -1.0 V) (I _C = -300 mA, V _{CE} = -1.0 V)	BC327/BC328 BC327–16/BC328–16 BC327–25/BC328–25	hFE	100 100 160 40	 	630 250 400 —	-
Base–Emitter On Voltage ($I_C = -300 \text{ mA}, V_{CE} = -1.0 \text{ V}$)		V _{BE(on)}	—	—	-1.2	Vdc
Collector-Emitter Saturation Voltage ($I_C = -500 \text{ mA}$, $I_B = -50 \text{ mA}$)		V _{CE(sat)}	—	—	-0.7	Vdc
SMALL-SIGNAL CHARACTERISTICS		•	•			
Output Capacitance $(V_{CB} = -10 \text{ V}, I_E = 0, f = 1.0 \text{ MHz})$		C _{ob}	—	11	_	pF
Current-Gain — Bandwidth Product ($I_C = -10 \text{ mA}, V_{CE} = -5.0 \text{ V}, f = 100 \text{ MHz}$)		fT	—	260	_	MHz









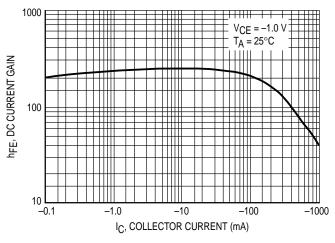
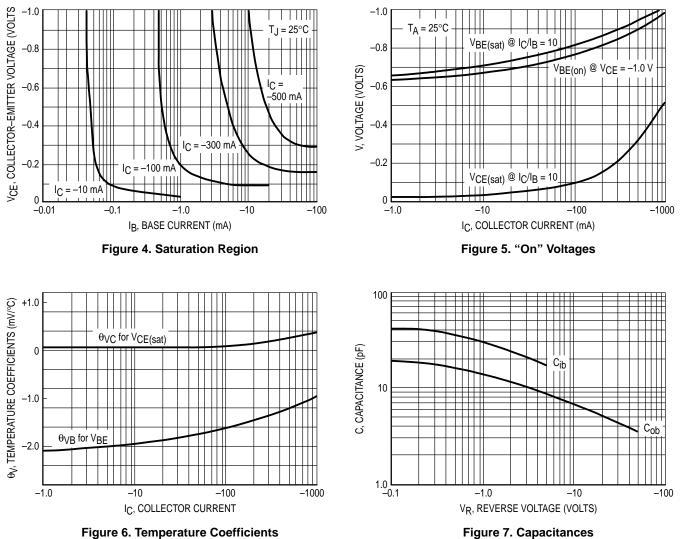
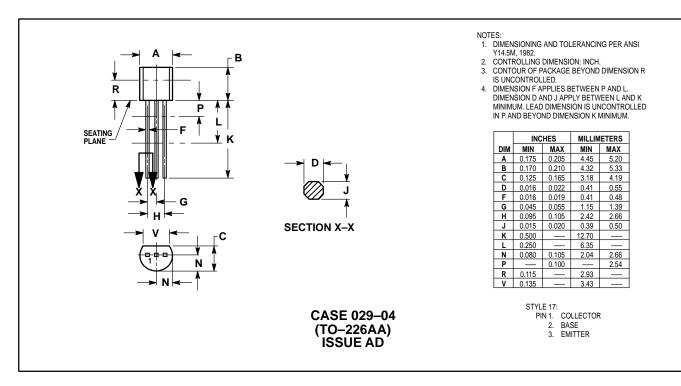


Figure 3. DC Current Gain

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PACKAGE DIMENSIONS



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