

SEMICONDUCTOR®

BC327/328

Switching and Amplifier Applications

- Suitable for AF-Driver stages and low power output stages
- Complement to BC337/BC338



BC327/328

1. Collector 2. Base 3. Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CES}	Collector-Emitter Voltage		
	: BC327	-50	V
	: BC328	-30	V
V _{CEO}	Collector-Emitter Voltage		
	: BC327	-45	V
	: BC328	-25	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current (DC)	-800	mA
P _C	Collector Power Dissipation	625	mW
I _C P _C T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

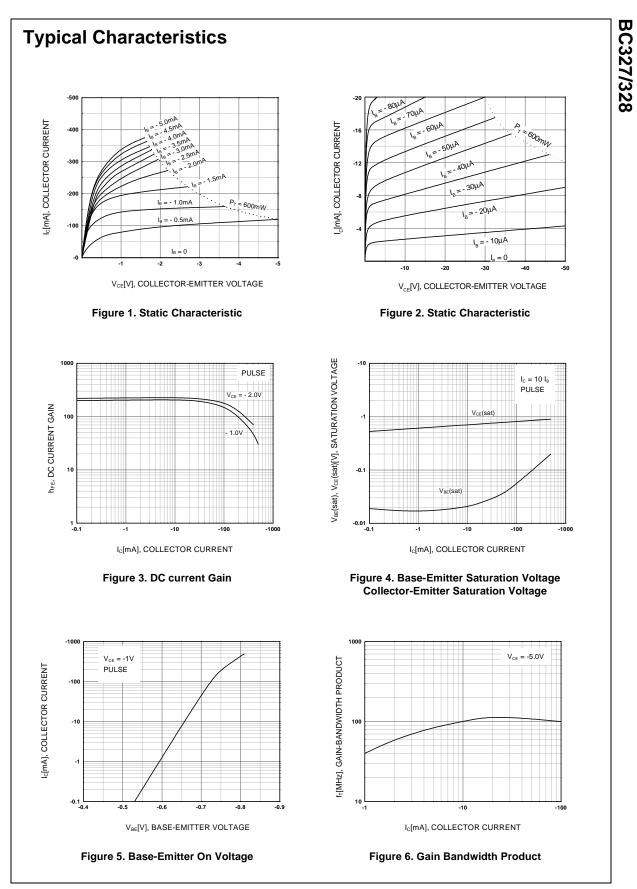
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0				
	: BC327		-45			V
	: BC328		-25			V
BV _{CES}	Collector-Emitter Breakdown Voltage	I _C = -0.1mA, V _{BE} =0				
	: BC327		-50			V
	: BC328		-30			V
BV_{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-5			V
I _{CES}	Collector Cut-off Current					
	: BC327	V _{CE} = -45V, V _{BE} =0		-2	-100	nA
	: BC328	V_{CE} = -25V, V_{BE} =0		-2	-100	nA
h _{FE1}	DC Current Gain	V _{CE} = -1V, I _C = -100mA	100		630	
h _{FE2}		V _{CE} = -1V, I _C = -300mA	40			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA			-0.7	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -1V, I _C = -300mA			-1.2	V
f _T	Current Gain Bandwidth Product	V _{CE} = -5V, I _C = -10mA, f=20MHz		100		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz		12		pF

h_{FE} Classification

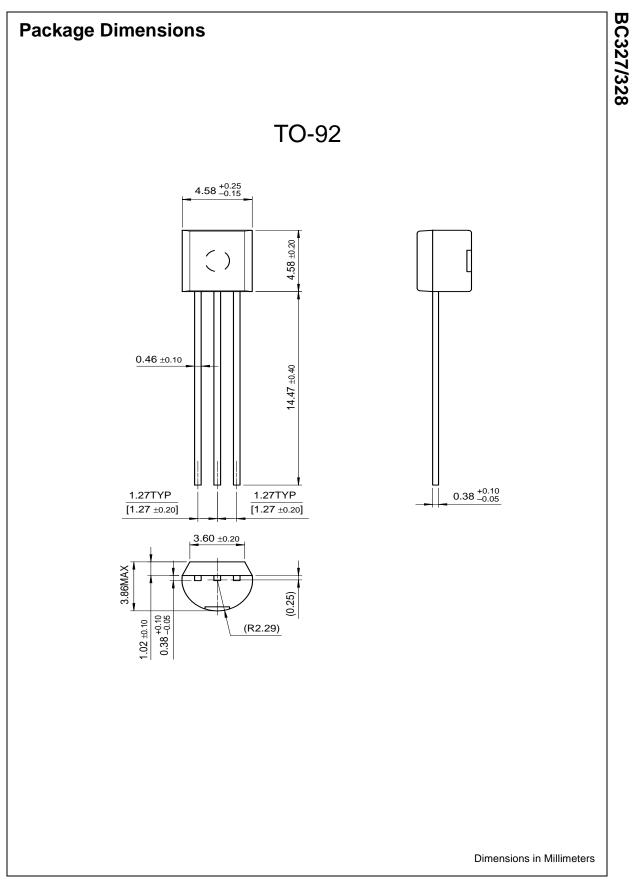
Classification	16	25	40
h _{FE1}	100 ~ 250	160 ~ 400	250 ~ 630
h _{FE2}	60-	100-	170-

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