

BC636 —

PNP Epitaxial Silicon Transistor



Features

- Switching and Amplifier Applications
- Complement to BC635

FAIRCHILD



Ordering Information

Part Number	Top Mark	Package	Packing Method
BC636TA	BC636	TO-92 3L	Ammo

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Unit	
V _{CER}	Collector-Emitter Voltage at R_{BE} = 1 K Ω	-45	V	
V _{CES}	Collector-Emitter Voltage	-45	V	
V _{CEO}	Collector-Emitter Voltage	-45	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
I _C Collector Current		-1	А	
I _{CP} Peak Collector Current		-1.5	Α	
I _B Base Current		-100	mA	
T _J Junction Temperature		150	°C	
T _{STG}	Storage Temperature	-65 to 150	°C	

Thermal Characteristics⁽¹⁾

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Value	Unit
р	Power Dissipation	1	W
PD	Derate Above 25°C	8	mW/°C
R _{θJA}	Thermal Resistance, Junction-to-Ambient	125	°C/W

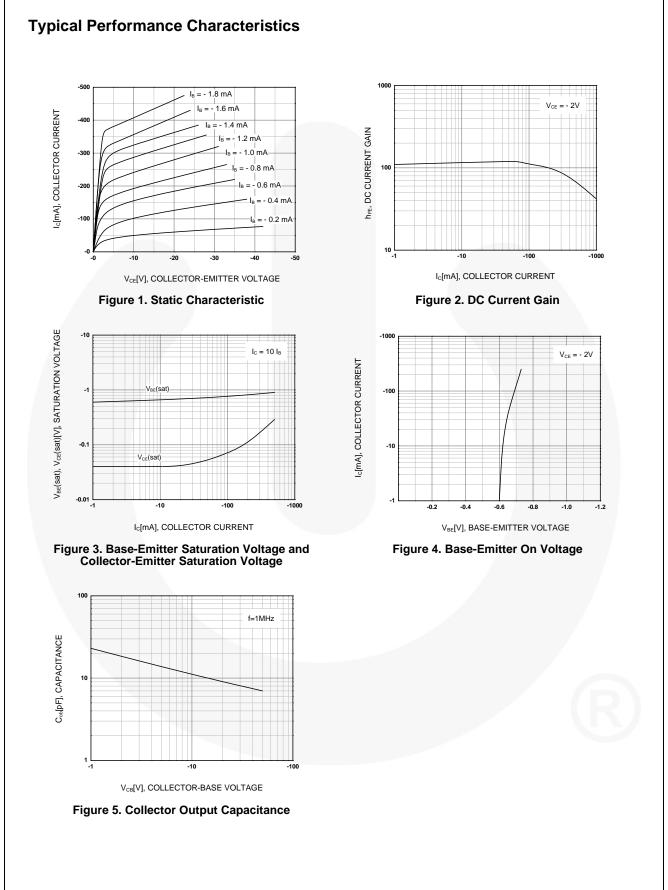
Note:

1. PCB size: FR-4, 76 mm x 114 mm x 1.57 mm (3.0 inch x 4.5 inch x 0.062 inch) with minimum land pattern size.

Electrical Characteristics

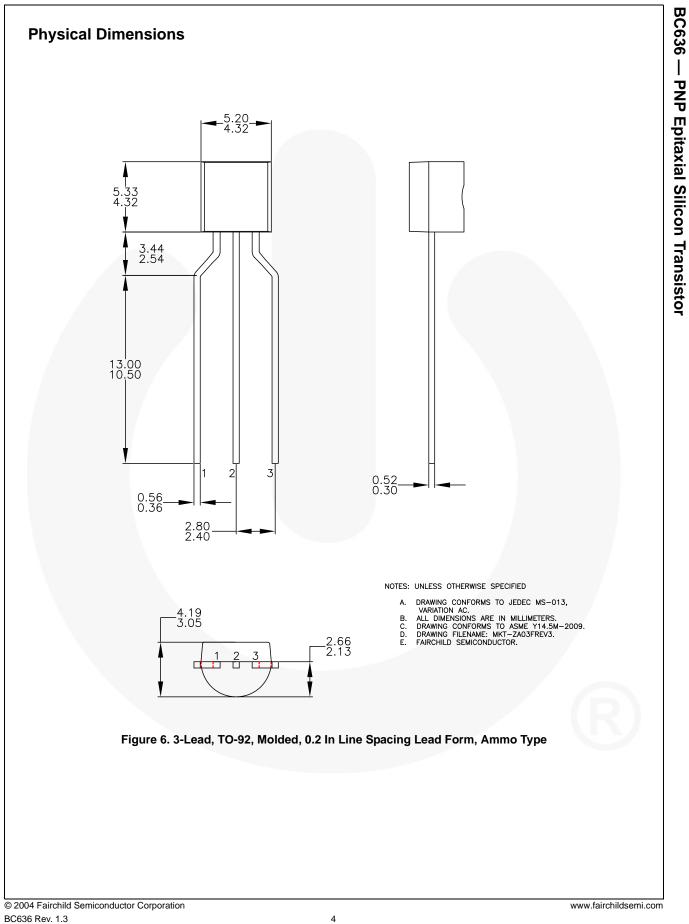
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10 mA, I _B = 0	-45			V
I _{CBO}	Collector Cut-Off Current	$V_{CB} = -30 \text{ V}, \text{ I}_{E} = 0$			-0.1	μΑ
I _{EBO}	Emitter Cut-Off Current	$V_{EB} = -5 V, I_{C} = 0$			-10	μΑ
h _{FE1}		$V_{CE} = -2 V$, $I_C = -5 mA$	25			
h _{FE2}	DC Current Gain	$V_{CE} = -2 V, I_{C} = -150 mA$	40		250	
h _{FE3}		$V_{CE} = -2 V, I_{C} = -500 mA$	25			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -500 mA, I _B = -50 mA			-0.5	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = -2 V, I_{C} = -500 mA$			-1	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -5 V, I_{C} = -10 mA,$ f = 50 MHz		100		MHz



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