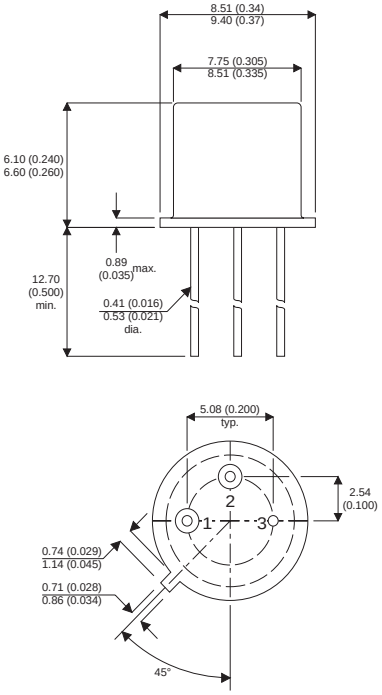
BFT36A

MECHANICAL DATA
Dimensions in mm(inches)

PNP SILICON TRANSISTOR



TO39 (TO205AD)

Pin 1 = Emitter **Pin 2 = Base** **Pin 3 = Collector**

FEATURES

- **FAST SWITCHING**
- **HIGH PULSE POWER**

APPLICATIONS

- **POWER SWITCHING CIRCUITS**
- **MOTOR CONTROL**

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

V_{CBO}	Collector – Base Voltage	- 100V
V_{CEO}	Collector – Emitter Voltage	- 80V
V_{EBO}	Emitter – Base Voltage	- 5V
I_C	Collector Current	- 3A
I_B	Base Current	- 2A
P_{tot}	Total Power Dissipation at $T_{case} \leq 25°C$	1W
T_{amb}	Ambient Operating Temperature	-55°C to +200°C
T_{stg},	Storage Temperature	-55°C to +200°C

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

Semelab plc. Telephone +44(0)1455 556565. Fax +44(0)1455 552612.
E-mail: sales@semelab.co.uk Website: http://www.semelab.co.uk

Document Number 3082
Issue 1

Downloaded from Elcodis.com electronic components distributor

SEME LAB

BFT36A

ELECTRICAL CHARACTERISTICS (T_{amb} = 25°C unless otherwise stated)

	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
h_{21E}	Static Value of Common Emitter Forward Current Transfer Ratio	V_{CE} = - 10V	I_C = - 0.15	50		250	—
		V_{CE} = - 10V	I_C = - 2A	15			
		V_{CE} = - 10V	I_C = - 1mA	20			
f_T	Transistion Frequency	V_{CE} = - 5V f = 20MHz	I_C = - 100mA	50			MHz
I_{CBO}	Collector Base Cut- Off Current.	V_{CB} = - 80V	I_E = 0			- 100	nA
			t = 150°C			- 100	µA
I_{EBO}	Emitter–Base Cut-off Current					- 100	nA
h_{21e}	Small Signal Common Emitter Forward Current Transfer Ratio	V_{EB} = - 4V V_{CE} = - 5V	I_C = - 10mA	25			—
$V_{CE(sat)*}$	Collector – Emitter Saturation Voltage*	f = 1KHz				- 0.3	V
		I_C = - 150mA	I_B = - 15mA			- 0.6	
$V_{BE(sat)*}$	Base – Emitter Saturation Voltage*	I_C = - 1A	I_B = - 0.1A			- 0.95	V
		I_C = - 150mA	I_B = - 15mA			- 1.3	
C_{22b}	Common – Base Output Capacitance	V_{CB} = - 10V f = 1MHz	I_E = 0			80	pF

*Pulse Conditions: Pulse Length = 300µs duty cycle = 1.5%

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

Semelab plc. Telephone +44(0)1455 556565. Fax +44(0)1455 552612.
E-mail: sales@semelab.co.uk Website: http://www.semelab.co.uk

Document Number 3082
Issue 1

Downloaded from Elcodis.com electronic components distributor