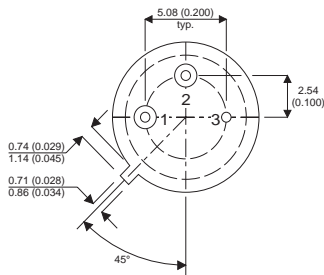
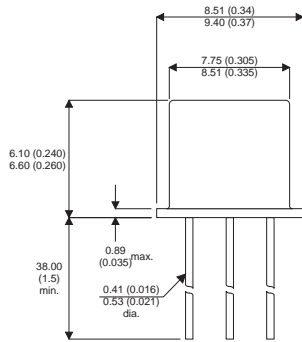


MECHANICAL DATA

Dimensions in mm (inches)

**TO5 PACKAGE (TO205AA)****Underside View**

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

**SMALL SIGNAL
PNP TRANSISTORS****FEATURES**

- Ruggedness
- Restricted Bandwidth
- High Reverse Emitter Voltage

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25^{\circ}\text{C}$ unless otherwise stated)

V_{CBO}	Collector – Base Voltage	- 32V
V_{CEO}	Collector – Emitter Voltage	- 32V
V_{EBO}	Reverse Emitter – Base Voltage	- 32V
$I_{C(PK)}$	Peak Collector Current	- 150mA
I_{CM}	Collector Current	- 100mA
	Device Dissipation	600mW
T_J	Operating Junction Temperature	175°C
T_{stg}	Storage Temperature Range	-55 to 200°C
$R_{\theta j-c}$	Thermal Resistance Junction to Case	0.5°C/mW

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.

ELECTRICAL CHARACTERISTICS ($T_{\text{case}} = 25^{\circ}\text{C}$ unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{EBO}	Emitter Cut-off Current $V_{\text{CB}} = - \text{rated voltage}$ $I_{\text{C}} = 0$			-10	μA
V_{BE}	Base – Emitter Voltage $V_{\text{CE}} = - 4.5\text{V}$ $I_{\text{E}} = - 20\text{mA}$		-0.8	-1.45	V
$V_{\text{CE(sat)}}$	Collector – Emitter Saturation Voltage $I_{\text{C}} = -20\text{mA}$ $I_{\text{B}} = - 3\text{mA}$			-0.50	mV
	$I_{\text{C}} = - 250\mu\text{A}$ $I_{\text{B}} = 50\mu\text{A}$			-0.18	
h_{FE}	Static Forward Current Transfer Ratio $V_{\text{CE}} = - 4.5\text{V}$ $I_{\text{C}} = - 20\text{mA}$	15	30	57	
h_{fe}	Small Signal Common Emitter Forward Current Transfer Ratio $V_{\text{CE}} = - 6\text{V}$ $I_{\text{C}} = - 1\text{mA}$ $f = 1\text{kHz}$	25	35	57	
f_{T}	Transistion Frequency $V_{\text{CB}} = -6\text{V}$ $I_{\text{C}} = -1\text{mA}$	0.6	2.4		MHz

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