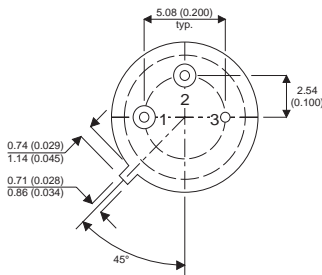
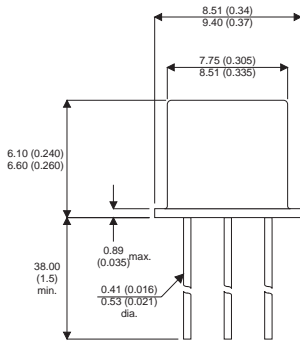


**MECHANICAL DATA**

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** ( $T_{amb} = 25^{\circ}C$  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
$I_{\text{EBO}}$ Emitter Cut-off Current	$V_{\text{CB}} = -$ rated voltage $I_{\text{C}} = 0$			-10	$\mu\text{A}$
$V_{\text{BE}}$ 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	
$h_{\text{FE}}$ Static Forward Current Transfer Ratio	$V_{\text{CE}} = - 4.5\text{V}$ $I_{\text{C}} = - 20\text{mA}$	15	30	57	
$h_{\text{fe}}$ 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	
$f_{\text{T}}$ Transistion Frequency	$V_{\text{CB}} = -6\text{V}$ $I_{\text{C}} = -1\text{mA}$	0.6	2.4		MHz

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