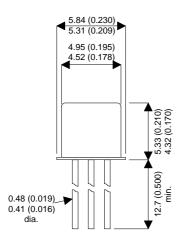
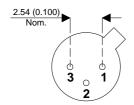




MECHANICAL DATA

Dimensions in mm (inches)





TO-18 METAL PACKAGE Underside View

PIN 1 – Emitter PIN 2 – Base PIN 3 – Collector

PNP SILICON TRANSISTOR

FEATURES

- PNP High Voltage Planar Transistor
- Hermetic TO18 Package
- Full Screening Options Available

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

$\overline{V_{CBO}}$	Collector – Base Voltage	-150V
V_{CEO}	Collector – Emitter Voltage (I _B = 0)	-150V
V_{EBO}	Emitter – Base Voltage (I _B = 0)	-6V
$I_{\mathbb{C}}$	Collector Current	0.1A
P_{D}	Total Device Dissipation T _A = 25 °C	0.4W
P_{D}	Total Device Dissipation T _C = 25 °C	1.4W
T_{stg}	Storage Temperature	−55 to 200°C
T_J	Max Operating Junction Temperature	200°C
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	438°C/W
$R_{\theta JC}$	Thermal Resistance Junction to Case	125°C/W

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.

E-mail: sales@semelab.co.uk

Semelab plc. Telephone +44(0)1455 556565. Fax +44(0)1455 552612.

Website: http://www.semelab.co.uk

Document Number 5989





ELECTRICAL CHARACTERISTICS Continued ($T_A = 25$ °C unless otherwise stated)

	Parameter	Test Conditions	Min.	Тур.	Max.	Unit.
V _{(BR)CBO}	Collector - Base Breakdown Voltage (1)	$I_C = -10\mu A$, $I_E = 0$	-150			V
V _{(BR)CEO}	Collector - Emitter Breakdown Voltage (1)	$I_C = -2mA$, $I_B = 0$	-150			V
I _{CBO}	Colllector Cut Off Current	Vcb = -100v , IE = 0		-0.2	-10	nA
		Vcb = -100v, IE = 0 TA =125 °C	-	-0.03	-10	μΑ
V _{(BR)EBO}	Emitter - Base Breakdown Voltage (1)	$I_E = -10\mu A , I_C = 0$	-6			V
V _{CE(sat)}	Collector - Emitter Saturation Voltage (1)	I _C =-10mA , I _B = -1mA		-0.1	-0.5	V
V _{BE(sat)}	Base - Emitter Saturation Voltage (1)	I _C =-10mA , I _B = -1mA		-0.74	-0.9	V
h _{FE}	DC Current Gain (1)	Ic =-1mA, VcE = -10v	40	85		
		Ic =-10mA, Vcε = -10v Ic =-10μA, Vcε = -10v	40	100 30		
f _T	Current Gain - Bandwith Product	I _C =-1mA ,V _{CE} =-10v, f=20 MHz		50		MHz
		I _C =-10mA	60			
C _{EBO}	Emitter- Base Capacitance	V _{EB} =-0.5∨ , I _E = 0 , f=1 MHz		20	25	pF
C _{CBO}	Collector- Base Capacitance	V _{CB} =-5v , I _E = 0 , f=1 MHz		5	7	pF

(1) Pulse test: Pulse Width < 300µs ,Duty Cycle < 2%

Semelab PIc 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.

E-mail: sales@semelab.co.uk

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