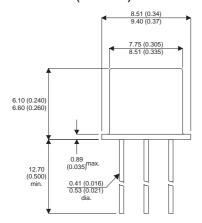
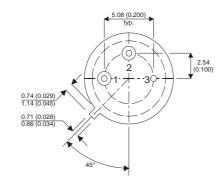




MECHANICAL DATA

Dimensions in mm(Inches)





TO39 PACKAGE(TO205AD)

Pin 1 = Emitter

Pin 2 = Base

Pin 3 = Collector

PNP SILICON **TRANSISTORS**

FEATURES

- SILICON PLANAR EPITAXIAL PNP **TRANSISTOR**
- HERMETICALLY SEALED TO-39 **PACKAGE**
- CECC LEVEL SCREENING OPTIONS
- JAN LEVEL SCREENING OPTIONS

APPLICATIONS:

Hermetically sealed, the 2N6190 silicon planar epitaxial PNP transistor is intended for general purpose applications.

ABSOLUTE MAXIMUM RATINGS T_{CASE} = 25°c unless otherwise stated

V_{CBO}	Collector – Base Voltage(I _E = 0)	80V
V_{CEO}	Collector – Emitter Voltage (I _B = 0)	80V
V_{EBO}	Emitter – Base Voltage (I _C = 0)	6V
I _C	Collector Current	5A
I _B	Base Current	1A
P_{tot}	Total Dissipation at T _C ≤ 25°C	10W
	derate above 25°C	17.5°C/W
T_{stg}	Storage Temperature Range	−55 to +200°C
Tj	Junction temperature	200°C

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

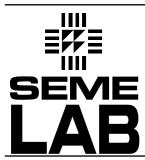
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Document Number 5912

Issue: 1





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

	Parameter	Test Conditions		Min.	Тур.	Max.	Unit V	
V _{(BR)CEO} *	Collector Emitter Breakdown Voltage	$I_C = 50 \text{mA}$	= 50mA					
I _{CBO}	Collector-Base Cut Off Current	I _E = 0	V _{CB} = 80V			10	μΑ	
I _{CEX}	Collector-Emitter Cut Off Current	V _{BE} = 1.5V	V _{CE} = 75V			10	μΑ	
			T _A = 150℃			1.0	mA	
I _{CEO}	Collector-Emitter Cut Off Current	$I_B = 0$	V _{CE} = 75V			100	μΑ	
I _{EBO}	Collector-Emitter Cut Off Current	$V_{BE} = 6V$				100	μΑ	
V _{CE(sat)} *	Collector Emitter Saturation Voltage	I _C = 2A	$I_{B} = 0.2A$			0.7	V	
		I _C = 5A	I _B = 0.5A			1.2		
V _{BE(sat)} *	Base Emitter Voltage	I _C = 2A	$I_{B} = 0.2A$			1.2	V	
		I _C = 5A	$I_{B} = 0.5A$			1.8		
h _{FE} *	DC Current Gain	$I_{\rm C} = 0.5A$	V _{CE} = 2V	30			_	
		I _C = 2A	$V_{CE} = 2V$	30		120		
		I _C = 5A	$V_{CE} = 2V$	20				
f _T	Transition Frequency	$V_{CE} = 10V$ f = 10MHz	I _C = 0.5A	30			MHz	
C _{IBO}	Input Capacitance, Output Open Circuited	$V_{BE} = 2V$ f =100kHz	I _C = 0			1250		
C _{OBO}	Open Circuit Output Capacitance	$V_{CB} = 10V$ f =100kHz	I _E = 0			300	- pF	
t _d	Delay Time	V _{CC} = 40V	I _E = 2.0A			100		
t _r	Rise Time	$V_{BE(off)} = 3.0$	$I_{B1} = 0.2A$			100	ns	
t _s	Storage Time	$V_{CC} = 40V$	I _E = 2.0A			20	μs	
t _f	Fall Time	$I_{B1} = I_{B2} = 0.$.2A			200	ns	

^{*} Pulse Test: $t_p = 300 \mu s$, $\delta = 1\%$.

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