



MECHANICAL DATA

Dimensions in mm (inches)

7.62 (0.300) 7.12 (0.280) 1.07 (0.040) 1.07 (0.040) 1.07 (0.040) 1.08 (0.055) 1.09 (0.055) 1.09 (0.055) 1.09 (0.055) 1.09 (0.055) 1.09 (0.055) 1.09 (0.040) 1.09 (0.045) 1.09 (0.045) 1.09 (0.045) 1.09 (0.045)

PNP SILICON TRANSISTORS

FEATURES

- Hermetically sealed ceramic surface mount package
- Small footprint
- Simple drive requirements

LCC4 CERAMIC SURFACE MOUNT PACKAGE

Underside View

Pads 6, 7, 8, 9, 10, 11, 12, 13. Emitter
Pads 4,5 Base
Pads 1,2,15,16,17,18 Collector
Pads 3,14 Not Connected

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

V_{CBO}	Collector – Base Voltage(I _E = 0)	100V
V_{CEO}	Collector – Emitter Voltage (I _B = 0)	100V
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 _{amb} ≤ 25°C	1W
	derate above 25°C	5.71mW/°C
P_{tot}	Total Dissipation at T _{amb} ≤ 25°C	10W
	derate above 25°C	57.1mW/°C
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.

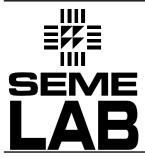
E-mail: sales@semelab.co.uk

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

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

Document Number 5708

Issue: 1



2N6193ALCC4

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

Parameter	Test Conditions		Min.	Тур.	Max.	Unit
Collector Emitter Breakdown Voltage	I _C = 50mA pulsed		100			V
Collector-Base Cut Off Current	I _E = 0	V _{CB} = 100V			10	μΑ
Collector-Emitter Cut Off Current	$V_{BE} = 1.5V$	V _{CE} = 90V			10	μΑ
		$T_A = 150$ °C			1	mA
Collector-Emitter Cut Off Current	$I_B = 0$	V _{CE} = 100V			100	μΑ
Collector-Emitter Cut Off Current	$V_{EB} = 6V$				100	μΑ
	$V_{EB} = 5.5V$	I _C = 0			1.0	mA
Collector Emitter Saturation Voltage	I _C = 2A	I _B = 0.2A			0.7	V
	I _C = 5A	I _B = 0.5A			1.2	
Base Emitter Voltage	I _C = 2A	I _B = 0.2A			1.2	V
	I _C = 5A	I _B = 0.5A			1.8	
DC Current Gain	$I_{\rm C} = 0.5 A$	V _{CE} = 2V	60			_
	I _C = 2A	V _{CE} = 2V	60		240	
	I _C = 5A	$V_{CE} = 2V$	30			
	I _C =2A	$V_{CE} = 2V$	12			
		$T_C = -55$ °C				
Magnitude of Common Emitter Small		I _C = 0.5A	3.0		15	
Signal Short circuit forward Current						
Transfer ratio.	1 - 10101112					
Input Capacitance, Output Open	$V_{CB} = 10V$	I _E = 0			1250	- pF
Circuited	100kHz <f<1< td=""><td>MHz</td><td></td><td></td><td>1200</td></f<1<>	MHz			1200	
Open Circuit Output Canacitance	V _{CB} = 10V	I _E = 0			300	
Sport Shoult Sulput Supusitance	100kHz <f<1mhz< td=""><td></td><td></td><td>300</td><td></td></f<1mhz<>				300	
• • • •	Collector Emitter Breakdown Voltage Collector-Base Cut Off Current Collector-Emitter Cut Off Current Collector-Emitter Cut Off Current Collector-Emitter Cut Off Current Collector Emitter Saturation Voltage Base Emitter Voltage DC Current Gain Magnitude of Common Emitter Small Signal Short circuit forward Current Transfer ratio. Input Capacitance, Output Open			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		

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. Document Number 5708 E-mail: sales@semelab.co.uk Website: http://www.semelab.co.uk Issue: 1