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STMicroelectronics 2N5195

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2N5195

MEDIUM POWER PNP SILICON TRANSISTOR

- STMicroelectronics PREFERRED SALESTYPE
- PNP TRANSISTOR

APPLICATIONS

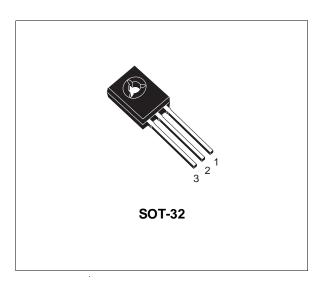
 LINEAR AND SWITCHING INDUSTRIAL EQUIPMENT

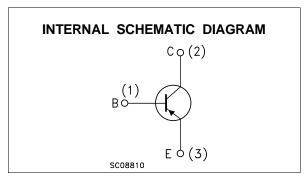
DESCRIPTION

The 2N5195 is a silicon epitaxial-base PNP transistor in Jedec SOT-32 plastic package.

It is inteded for use in medium power linear and switching applications.

The complementary NPN type is 2N5192.





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage (I _E = 0)	-80	V
V _{CEO}	Collector-Emitter Voltage (I _B = 0)	-80	V
V_{EBO}	Emitter-Base Voltage (I _C = 0)	-5	V
Ic	Collector Current	-4	А
I _{CM}	Collector Peak Current	-7	А
Ι _Β	Base Current	-1	А
P _{tot}	Total Dissipation at T _c ≤ 25 °C	40	W
T _{stg}	Storage Temperature	-65 to 150	°C
Tj	Max. Operating Junction Temperature	150	°C

December 2000 1/5



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THERMAL DATA

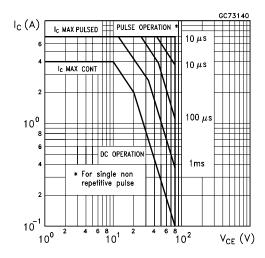
R _{thj-case}	Thermal Resistance Junction-case	Max	3.12	°C/W
R _{thj-amb}	Thermal Resistance Junction-ambient	Max	100	°C/W

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

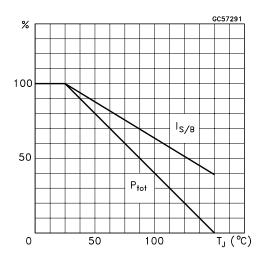
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Ісво	Collector Cut-off Current (I _E = 0)	V _{CB} = rated V _{CBO}			-0.1	mA
I _{CEX}	Collector Cut-off Current (V _{BE} = -1.5V)	V_{CE} = rated V_{CEO} V_{CE} = rated V_{CEO} T_c = 125 $^{\circ}$ C			-0.1 -2	mA mA
I _{CEO}	Collector Cut-off Current (I _B = 0)	V _{CE} = rated V _{CEO}			-1	mA
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = -5 V			-1	mA
V _{CEO(sus)} *	Collector-Emitter Sustaining Voltage	I _C = -100 mA	-80			V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	$I_C = -1.5 \text{ A}$ $I_B = -0.15 \text{ A}$ $I_C = -4 \text{ A}$ $I_B = -1 \text{ A}$			-0.6 -1.2	V V
V _{BE} *	Base-Emitter Voltage	$I_{C} = -1.5 \text{ A}$ $V_{CE} = -2 \text{ V}$			-1.2	V
h _{FE} *	DC Current Gain	I _C = -1.5 A V _{CE} = -2 V I _C = -4 A V _{CE} = -2 V	20 7		80	
f⊤	Transition frequency	Ic = -1 A V _{CE} = -10 V	2			MHz

^{*} Pulsed: Pulse duration = 300 μs, duty cycle 1.5 %

Safe Operating Area



Derating Curves



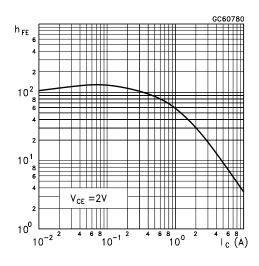


Datasheet of 2N5195 - TRANS PNP 80V 4A SOT-32

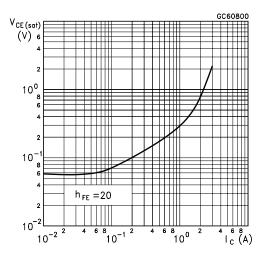
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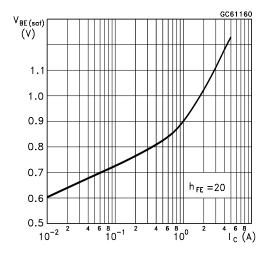
DC Current Gain



Collector-Emitter Saturation Voltage



Base-Emitter Saturation Voltage



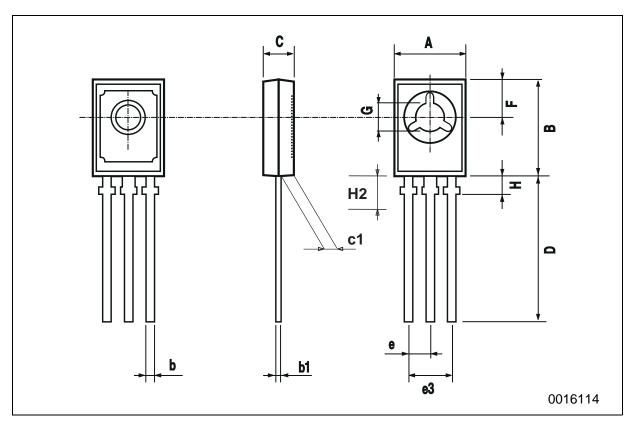
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SOT-32 (TO-126) MECHANICAL DATA

DIM.	mm		inch			
DIW.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
А	7.4		7.8	0.291		0.307
В	10.5		10.8	0.413		0.445
b	0.7		0.9	0.028		0.035
b1	0.49		0.75	0.019		0.030
С	2.4		2.7	0.040		0.106
c1	1.0		1.3	0.039		0.050
D	15.4		16.0	0.606		0.629
е		2.2			0.087	
e3	4.15		4.65	0.163		0.183
F		3.8			0.150	
G	3		3.2	0.118		0.126
Н			2.54			0.100





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Datasheet of 2N5195 - TRANS PNP 80V 4A SOT-32

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