

2N5190 2N5190R
2N5191 2N5191R
2N5192 2N5192R

NPN SILICON POWER TRANSISTOR



TO-18 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5190 series, 2N5190R series types are silicon NPN epitaxial base power transistors designed for medium power amplifier and switching applications.

Part numbers with the suffix "R" have the base and emitter leads reversed from the standard lead configuration. All other specifications are identical to the standard part numbers.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C)

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Peak Collector Current
Continuous Base Current
Power Dissipation (T _C =25°C)
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL	2N5190	2N5191	2N5192	UNITS
V _{CBO}	40	60	80	V
V _{CEO}	40	60	80	V
V _{EBO}		5.0		V
I _C		4.0		A
I _{CM}		7.0		A
I _B		1.0		A
P _D		40		W
T _J , T _{stg}		-65 to +150		°C
θ _{JC}		3.12		°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C)

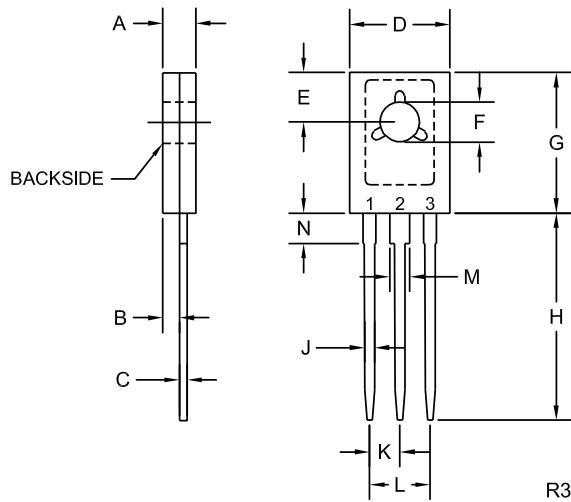
SYMBOL	TEST CONDITIONS	2N5190		2N5191		2N5192		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I _{CBO}	V _{CB} =Rated V _{CBO}	-	100	-	100	-	100	μA
I _{CEV}	V _{CE} =Rated V _{CEO} , V _{EB} =1.5V	-	100	-	100	-	100	μA
I _{CEO}	V _{CE} =Rated V _{CEO}	-	1.0	-	1.0	-	1.0	mA
I _{EBO}	V _{EB} =5.0V	-	1.0	-	1.0	-	1.0	mA
BV _{CEO}	I _C =100mA	40	-	60	-	80	-	V
V _{CE(SAT)}	I _C =1.5A, I _B =150mA	-	0.6	-	0.6	-	0.6	V
V _{CE(SAT)}	I _C =4.0A, I _B =1.0A	-	1.4	-	1.4	-	1.4	V
V _{BE(ON)}	V _{CE} =2.0V, I _C =1.5A	-	1.2	-	1.2	-	1.2	V
h _{FE}	V _{CE} =2.0V, I _C =1.5A	25	100	25	100	20	80	
h _{FE}	V _{CE} =2.0V, I _C =4.0A	10	-	10	-	7.0	-	
f _T	V _{CE} =10V, I _C =1.0A, f=1.0MHz	2.0	-	2.0	-	2.0	-	MHz

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TO-18 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.094	0.110	2.40	2.80
B	0.050		1.27	
C	0.015	0.030	0.38	0.75
D	0.291	0.335	7.40	8.50
E	0.148		3.75	
F	0.118	0.134	3.00	3.40
G	0.413	0.472	10.50	12.00
H	0.618		15.70	
J	0.024	0.035	0.62	0.90
K	0.089		2.25	
L	0.177		4.50	
M	0.045	0.055	1.14	1.40
N	0.083		2.10	

TO-18 (REV:R3)

LEAD CODE FOR STANDARD PART NUMBERS

2N5190, 2N5191, 2N5192:

- 1) Emitter
- 2) Collector
- 3) Base

LEAD CODE FOR REVERSED PART NUMBERS

2N5190R, 2N5191R, 2N5192R:

- 1) Base
- 2) Collector
- 3) Emitter

MARKING: FULL PART NUMBER

R1 (22-August 2012)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01039
Notification Date:	8/11/16
Last Buy Date:	2/11/17
Last Shipment Date	8/11/17

Summary: The 2N5190 series of NPN and PNP Power transistors, with the exception of 2N5192 and 2N5195, is discontinued and is now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
2N5190	2N5192 SL H
2N5191	2N5192 SL H
2N5192R	N/A
2N5193	2N5195 SL H
2N5194	2N5195 SL H

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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