

Silicon NPN Power Transistor
2N5192G
DESCRIPTION

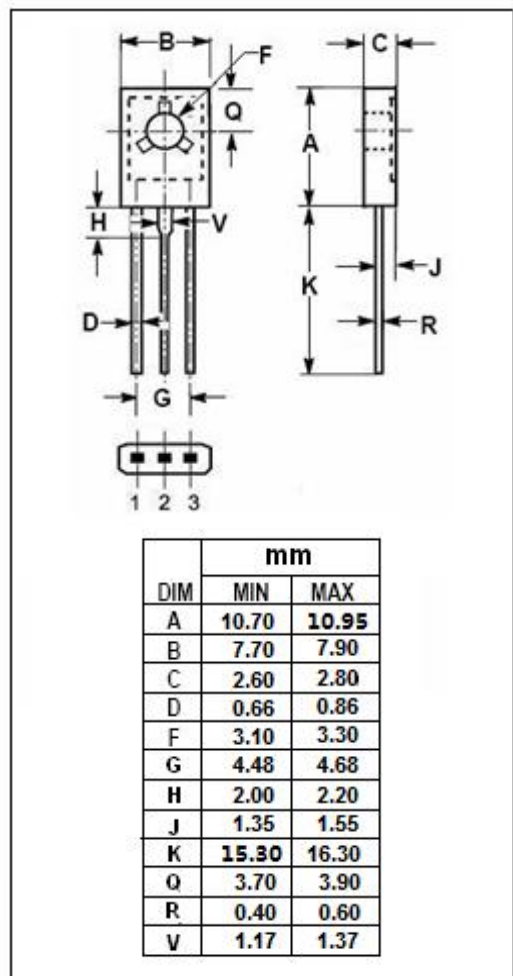
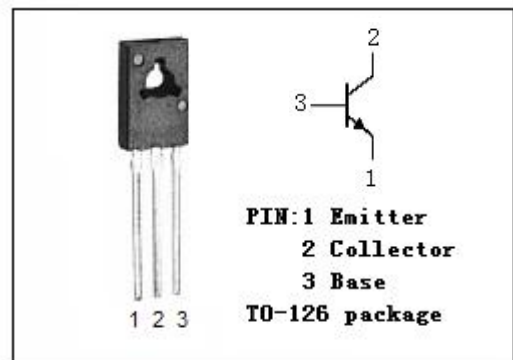
- Collector-Emitter Breakdown Voltage
 $-V_{(BR)CEO} = 80V(\text{Min})$
- Collector-Emitter Saturation Voltage
 $-V_{CE(sat)} : 1.4V(\text{Max}) @ I_C = 4A$

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	4	A
I _B	Base Current	1	A
P _C	Total Power Dissipation @ T _C =25°C	40	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.12	°C/W



Silicon NPN Power Transistor
2N5192G
ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA, I _B = 0	80	--	--	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 80V, I _B = 0	--	--	1	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V, I _E = 0	--	--	0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V, I _C = 0	--	--	1	mA
h _{FE1}	DC Current Gain	I _C = 1.5A, V _{CE} = 2V	20	--	80	
h _{FE2}	DC Current Gain	I _C = 4A, V _{CE} = 2V	7	--	--	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =1.5A, I _B = 0.15A	--	--	0.6	V
		I _C =4.0A, I _B = 1A	--	--	1.4	
V _{BE(on)}	Base-Emitter On Voltage	V _{CE} = 2V, I _C = 1A	--	--	1.2	V

PRODUCT DISCLAIMER

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

It is strictly prohibited to reprint or copy part or all of this datasheet without permission from ISC.