

Continental Device India Limited

An IS/ISO 9002 and IECQ Certified Manufacturer



NPN EPITAXIAL SILICON POWER TRANSISTORS

2N5191 2N5192

TO126 Plastic Package

Use in Medium Power Linear and Switching Applications

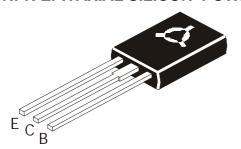
ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	2N5191	2N5192	UNIT	
Collector -Base Voltage	V_{CBO}	60	80	V	
Collector -Emitter Voltage	$V_{\sf CEO}$	60	80	V	
Emitter Base Voltage	V_{EBO}	5		V	
Collector Current	I_{C}	I _C 4		Α	
Collector Peak Current	I _{CM} 7		Α		
Base Current	I_{B}	1		Α	
Total Dissipation @ T _C <25 °C	P_{tot}	40		W	
Junction Temperature	T_j	150		°C	
Storage Temperature Range	T_{stg}	-65 to	150	°C	
Thermal Resistance	_				
Junction to Case	Rth(j-c)	3.12		°C/W	
Junction to Ambient	Rth(j-a)	100		°C/W	

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	MBOL TEST CONDITION		TYP	MAX	UNIT
Collector Emitter Sustaining Voltage	V _{CEO*(sus)}	I _C =100mA, I _B =0				
		2N5191	60	-	-	V
		2N5192	80	-	-	V
Collector Cut off Current	I_{CBO}	V_{CB} =rated V_{CBO} , I_E =0	-	-	0.1	mΑ
	I_{CEX}	V _{CE} =rated V _{CEO} ,	-	-	0.1	mΑ
		VBE=1.5V				
		V _{CE} =rated V _{CEO} ,	-	-	2	mA
		V _{BE} =1.5V,T _C =125 °C				
	I _{CEO}	V _{CE} =rated V _{CEO} , I _B =0	-	-	1	mA
Emitter Cut off Current	I _{EBO}	$V_{EB}=5V$, $I_{C}=0$	-	-	1	mΑ
Collector Emitter Saturation Voltage	$V_{CE(sat)^*}$	$I_{C}=1.5A$, $I_{B}=0.15A$	-	-	0.6	V
•	(-10)	$I_C=4A$, $I_B=1A$	-	-	1.4	V
Base Emitter Voltage	V_{BE}^{\star}	I _C =1.5A, V _{CE} =2V	-	-	1.2	V

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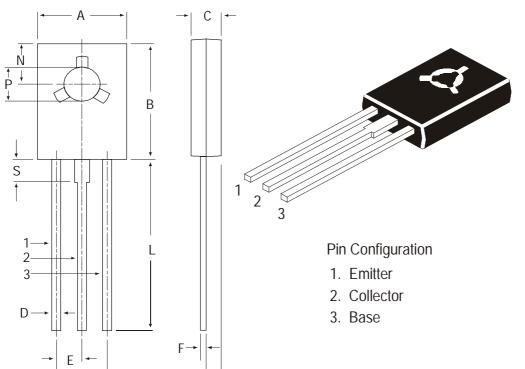
TO126 Plastic Package

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

SYMBOL TEST CONDITION		TYP	MAX	UNIT
I _C =1.5A, V _{CE} =2V				
2N5191	25	-	100	
2N5192	20	-	80	
4A, V _{CE} =2V				
2N5191	10	-	-	
2N5192	7	-	-	
1A, V _{CE} =10V	2	-	-	MHz
1.				

TO126 Plastic Package

TO-126 (SOT-32) Plastic Package



DIM	MIN	MAX		
А	7.4	7.8		
В	10.5	10.8		
С	2.4	2.7		
D	0.7	0.9		
E	2.25 TYP.			
F	0.49	0.75		
G	4.5 TYP.			
L	15.7 TYP.			
M	1.27 TYP.			
N	3.75 TYP.			
Р	3.0	3.2		
S	2.5 TYP.			

All diminsions in mm.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kgs

Notes 2N5191 2N5192

TO126
Plastic Package

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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