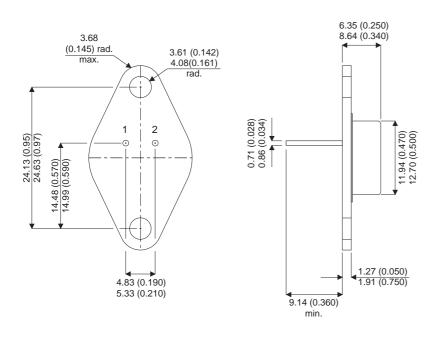


2N4910X 2N4911X 2N4912X

MECHANICAL DATA

Dimensions in mm (inches)



NPN EPITAXIAL **POWER TRANSISTOR IN TO66** HERMETIC PACKAGE

FEATURES

- LOW SATURATION VOTAGE
- HERMETIC METAL PACKAGE
- CECC SCREENING OPTIONS
- SPACE QUALITY LEVELS OPTIONS
- JAN LEVEL SCREENING OPTIONS

APPLICATIONS

- Driver Circuits
- Switching
- Amplifiers

TO-66 (TO-213AA) **Metal Package**

PIN 1 = BASE

PIN 2 = EMITTER CASE = COLLECTOR

ABSOLUTE MAXIMUM RATINGS

	$(T_{case} = 25^{\circ}C \text{ unless otherwise stated})$	2N4910X	2N4911X	2N4912X	
V _{(BR)CBO}	Collector – Base Breakdown Voltage	40V	60V	80V	
V _{(BR)CEO}	Collector – Emitter Breakdown Voltage	40V	60V	80V	
$V_{(BR)EBO}$	Emitter – Base Breakdown Voltage	5V			
Ic	Continuous Collector Current	1A			
I _B	Base Current	1A			
P_{D}	Total Power Dissipation	25W			
T_C	Operating Case Temperature Range	−65 to +200°C			
T_{stg}	Storage Temperature Range	−65 to +200°C			
$R_{\theta JC}$	Thermal Resistance, Junction To Case	7.0°C/W			

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.

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2N4910X 2N4911X 2N4912X

Electrical Characteristics $(T_C = 25^{\circ}C \text{ unless otherwise stated.})$

	Parameter	Test Conditions		Min.	Тур.	Max.	Units
I _{CEO}	Collector – Emitter Cut-off Current	V _{CE} = 40V	$I_B = 0$			0.50	mA
I _{CEX}	Collector – Emitter Cut-off Current	$V_{CE} = V_{(BR)CEO}$	V _{BE} = 1.5V			100	μΑ
			$T_{C} = 150^{\circ}C$			1.0	mA
I _{CBO}	Collector – Base Cut-off Current	$V_{CB} = V_{(BR)CBO}$	I _E = 0			0.1	mA
I _{CES}	Collector – Emitter Leakage	$V_{CE} = V_{(BR)CEO}$	V _{BE} = 0			100	
	Current					100	μΑ
V _{CE(sat)} *	Collector – Emitter Saturation	I _C = 1A	I _B = 0.1A			0.60	V
	Voltage					0.80	'
V _{BE(sat)} *	Base – Emitter Saturation Voltage	I _C = 1A	I _B = 0.1A			1.3V	V
V _{BE} *	Base – Emitter Voltage	I _C = 1A	V _{CE} = 1V			1.3V	V
h _{FE} *	DC Current Gain	V _{CE} = 1V	$I_C = 50mA$	40			
		V _{CE} = 1V	I _C = 500mA	20		175	
		V _{CE} = 1V	I _C = 1A	10			

^{*} Pulse Test: $t_p = 300\mu s$, $\delta = 2\%$.

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