

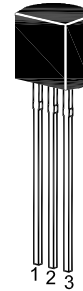
2N2907 - 2N2907A

PNP Silicon Epitaxial Planar Transistor

for switching and AF amplifier applications.

The transistor is subdivided into one group according to its DC current gain. As complementary type the NPN transistor ST 2N2222 and ST 2N2222A are recommended.

On special request, these transistors can be manufactured in different pin configurations.



1. Emitter 2. Base 3. Collector
 TO-92 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

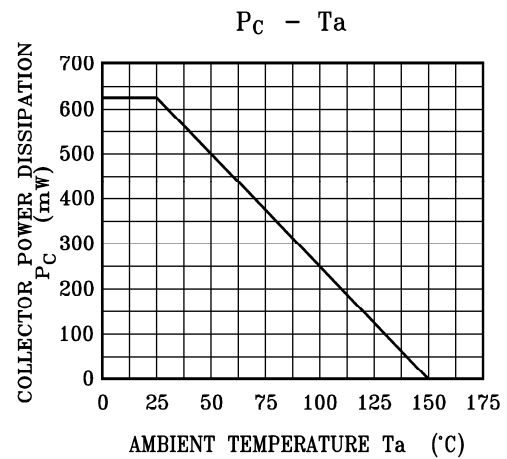
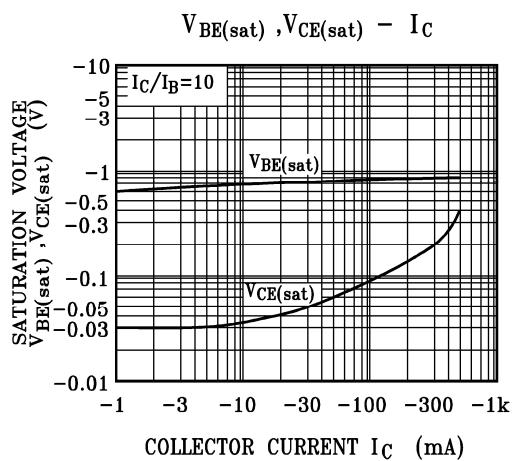
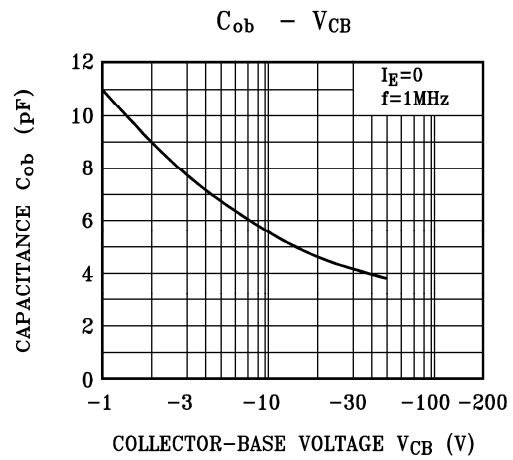
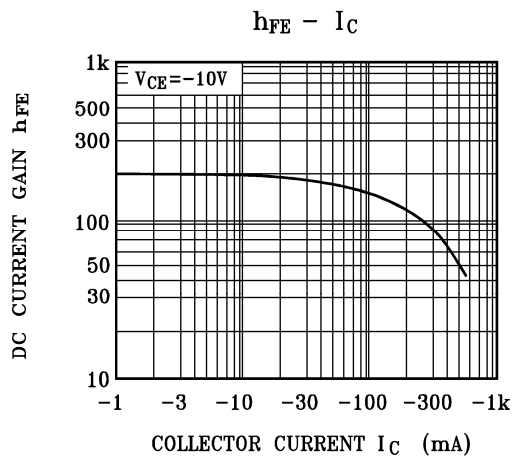
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	60	V
Collector Emitter Voltage	$-V_{CEO}$	40 60	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	600	mA
Power Dissipation	P_{tot}	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter		Symbol	Min.	Max.	Unit
DC Current Gain at $-V_{CE} = 10\text{ V}$, $-I_C = 0.1\text{ mA}$	2N2907	h_{FE}	35	-	-
	2N2907A	h_{FE}	75	-	-
at $-V_{CE} = 10\text{ V}$, $-I_C = 1\text{ mA}$	2N2907	h_{FE}	50	-	-
	2N2907A	h_{FE}	100	-	-
at $-V_{CE} = 10\text{ V}$, $-I_C = 10\text{ mA}$	2N2907	h_{FE}	75	-	-
	2N2907A	h_{FE}	100	-	-
at $-V_{CE} = 10\text{ V}$, $-I_C = 150\text{ mA}$	2N2907	h_{FE}	100	300	-
	2N2907A	h_{FE}	100	-	-
at $-V_{CE} = 10\text{ V}$, $-I_C = 500\text{ mA}$	2N2907	h_{FE}	30	-	-
	2N2907A	h_{FE}	50	-	-
Collector Base Cutoff Current at $-V_{CB} = 50\text{ V}$	2N2907	$-I_{CBO}$	-	20	nA
	2N2907A		-	10	
Collector Base Breakdown Voltage at $-I_C = 10\text{ }\mu\text{A}$		$-V_{(BR)CBO}$	60	-	V
Collector Emitter Breakdown Voltage at $-I_C = 10\text{ mA}$	2N2907	$-V_{(BR)CEO}$	40	-	V
	2N2907A		60	-	
Emitter Base Breakdown Voltage at $-I_E = 10\text{ }\mu\text{A}$		$-V_{(BR)EBO}$	5	-	V
Collector Emitter Saturation Voltage at $-I_C = 150\text{ mA}$, $-I_B = 15\text{ mA}$ at $-I_C = 500\text{ mA}$, $-I_B = 50\text{ mA}$		$-V_{CE(sat)}$	-	0.4	V
			-	1.6	
Base Emitter Saturation Voltage at $-I_C = 150\text{ mA}$, $-I_B = 15\text{ mA}$ at $-I_C = 500\text{ mA}$, $-I_B = 50\text{ mA}$		$-V_{BE(sat)}$	-	1.3	V
			-	2.6	
Gain Bandwidth Product at $-I_C = 50\text{ mA}$, $-V_{CE} = 20\text{ V}$, $f = 100\text{ MHz}$		f_T	200	-	MHz
Collector Output Capacitance at $-V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$		C_{ob}	-	8	pF
Input Capacitance at $-V_{BE} = 2\text{ V}$, $f = 1\text{ MHz}$		C_{ib}	-	30	pF

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Note: Specification is subject to change without further notice. For more details and updates, please visit our website.