2N5550 / 2N5551

NPN Silicon Epitaxial Planar Transistors

for general purpose, high voltage amplifier applications.

As complementary types the PNP transistors 2N5400 and 2N5401 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 °C)

Parameter		Symbol	Value	Unit	
Collector Base Voltage	2N5550 2N5551	V_{CBO}	160 180	V	
Collector Emitter Voltage	2N5550 2N5551	V _{CEO}	140 160	V	
Emitter Base Voltage		V_{EBO}	6	V	
Collector Current		I _C	600	mA	
Power Dissipation		P_{tot}	625	mW	
Junction Temperature		T _j	150	°C	
Storage Temperature Range		T _{stg}	- 55 to + 150	°C	











Dated: 16/08/2016 Rev: 01

Characteristics at T_a = 25 °C

Parameter		Symbol	Min.	Max.	Unit
DC Current Gain	ONEEEO	L	60		
at $V_{CE} = 5 \text{ V}$, $I_C = 1 \text{ mA}$	2N5550 2N5551	h _{FE} h _{FE}	60 80	_	_
at $V_{CE} = 5 \text{ V}$, $I_C = 10 \text{ mA}$	2N5550	h _{FE}	60	250	_
	2N5551	h _{FE}	80	250	_
at $V_{CE} = 5 \text{ V}$, $I_C = 50 \text{ mA}$	2N5550	h _{FE}	20	-	-
	2N5551	h _{FE}	30	-	-
Collector Base Cutoff Current					
at $V_{CB} = 100 \text{ V}$	2N5550	I_{CBO}	-	100	nA
at $V_{CB} = 120 \text{ V}$	2N5551		-	50	
Emitter Base Cutoff Current		I _{EBO}	_	50	nA
at $V_{EB} = 4 \text{ V}$		iEBO		30	11/3
Collector Base Breakdown Voltage					
at $I_C = 100 \mu A$	2N5550	$V_{(BR)CBO}$	160	-	V
	2N5551		180	-	
Collector Emitter Breakdown Voltage	ONIEEEO		4.40		
at $I_C = 1 \text{ mA}$	2N5550 2N5551	$V_{(BR)CEO}$	140 160	-	V
	2100001		100	_	
Emitter Base Breakdown Voltage		$V_{(BR)EBO}$	6	-	V
at I _E = 10 µA		(5.1)250			
Collector Emitter Saturation Voltage at $I_C = 10$ mA, $I_B = 1$ mA				0.15	
at $I_C = 50 \text{ mA}$, $I_B = 1 \text{ mA}$ at $I_C = 50 \text{ mA}$, $I_B = 5 \text{ mA}$	2N5550	$V_{CE(sat)}$	_	0.15	V
at 10 = 00 m/t, 18 = 0 m/t	2N5551		-	0.2	
Base Emitter Saturation Voltage					
at $I_C = 10$ mA, $I_B = 1$ mA		\	-	1	.,
at $I_C = 50 \text{ mA}, I_B = 5 \text{ mA}$	2N5550	$V_{BE(sat)}$	-	1.2	V
	2N5551		-	1	
Gain Bandwidth Product		f	100	300	MHz
at $V_{CE} = 10 \text{ V}$, $I_C = 10 \text{ mA}$, $f = 100 \text{ MHz}$		f _⊤	100	300	IVITZ
Collector Output Capacitance		C_ob	_	6	pF
at $V_{CB} = 10 \text{ V}$, $f = 1 \text{ MHz}$		Oob	_	U	Pi

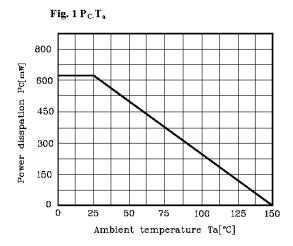


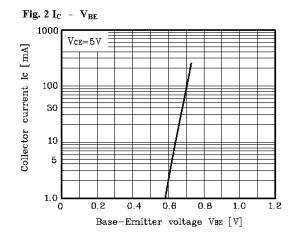


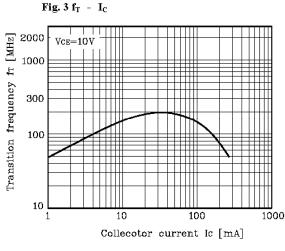












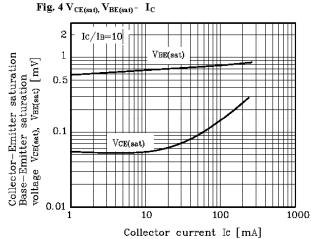
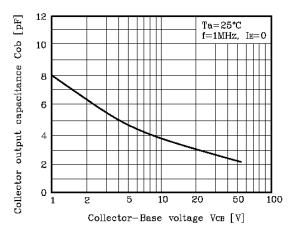


Fig. 5 $C_{ob}\,$ - $\,V_{CB}$













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