



PRODUCT NAME : 2N5550 NPN General Purpose Transistor

PRICE : Rs 15.00

SKU : RM2096



DESCRIPTION

Features

- Collector-Emitter Volt (V_{ce0}): 140V
- Collector-Base Volt (V_{cbo}): 160V
- Collector Current (I_c): 0.6A
- h_{fe} : 60-250 @ 10mA
- Power Dissipation (P_{tot}): 625mW
- Current-Gain-Bandwidth (f_{total}): 300MHz
- Type: NPN

2N5550

NPN EPITAXIAL SILICON TRANSISTOR

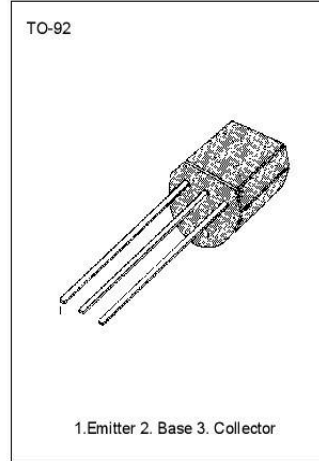
AMPLIFIER TRANSISTOR

- Collector-Emitter Voltage: $V_{CE0} = 140V$
- Collector Dissipation: $P_C(\text{max}) = 625mW$

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ C$)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	160	V
Collector-Emitter Voltage	V_{CEO}	140	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	600	mA
Collector Dissipation	P_C	625	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{STG}	-55 ~ 150	$^\circ C$

- Refer to 2N5551 for graphs



ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ C$)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = 100\mu A, I_E = 0$	160			V
* Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 1mA, I_B = 0$	140			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = 10\mu A, I_C = 0$	6			V
Collector Cut-off Current	I_{CBO}	$V_{CB} = 100V, I_E = 0$			100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$			50	nA
* DC Current Gain	h_{FE}	$I_C = 1mA, V_{CE} = 5V$	60			
		$I_C = 10mA, V_{CE} = 5V$	60		250	
		$I_C = 50mA, V_{CE} = 5V$	20			
* Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 10mA, I_B = 1mA$			0.15	V
		$I_C = 50mA, I_B = 5mA$			0.25	V
* Base-Emitter Saturation Voltage	$V_{BE(on)}$	$I_C = 10mA, I_B = 1mA$			1	V
		$I_C = 50mA, I_B = 5mA$			1.2	V
Current Gain Bandwidth Product	f_T	$I_C = 10mA, V_{CE} = 10V$	100		300	MHz
Output Capacitance	C_{OB}	$V_{CB} = 10V, I_E = 0$			6	pF
Noise Figure	NF	$f = 1MHz$ $I_C = 250\mu A, V_{CE} = 5V$ $R_S = 1K\Omega$ $f = 10Hz$ to $15.7KHz$			10	dB

* Pulse Test: Pulse Width $\leq 300\mu s$, Duty Cycles $\leq 2\%$

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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