

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N5550
2N5551

NPN SILICON TRANSISTOR

JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5550 Series types are Molded Epoxy Silicon NPN Transistors designed for high voltage amplifier applications.

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	2N5550	2N5551	UNIT
Collector-Base Voltage	V_{CB0}	160	180	V
Collector-Emitter Voltage	V_{CE0}	140	160	V
Emitter-Base Voltage	V_{EB0}	6.0		V
Collector Current	I_C	600		mA
Power Dissipation	P_D	625		mW
Power Dissipation ($T_C=25^\circ\text{C}$)	P_D	1.0		W
Operating and Storage Temp.	T_J, T_{stg}	-65 TO +150		$^\circ\text{C}$
Thermal Resistance	θ_{JA}	0.2		$^\circ\text{C}/\text{mW}$
Thermal Resistance	θ_{JC}	125		$^\circ\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N5550		2N5551		UNIT
		MIN	MAX	MIN	MAX	
I_{CB0}	$V_{CB}=100\text{V}$		100	-		nA
I_{CB0}	$V_{CB}=120\text{V}$		-	50		nA
I_{CB0}	$V_{CB}=100\text{V}, T_A=100^\circ\text{C}$		100	-		μA
I_{CB0}	$V_{CB}=120\text{V}, T_A=100^\circ\text{C}$		-	50		μA
I_{EB0}	$V_{EB}=4.0\text{V}$		50	50		nA
BV_{CB0}	$I_C=100\mu\text{A}$	160		180		V
BV_{CE0}	$I_C=1.0\text{mA}$	140		160		V
BV_{EB0}	$I_E=10\mu\text{A}$	6.0		6.0		V
$V_{CE}(\text{SAT})$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		0.15		0.15	V
$V_{CE}(\text{SAT})$	$I_C=50\text{mA}, I_B=5.0\text{mA}$		0.25		0.20	V
$V_{BE}(\text{SAT})$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		1.0		1.0	V
$V_{BE}(\text{SAT})$	$I_C=50\text{mA}, I_B=5.0\text{mA}$		1.2		1.0	V
h_{FE}	$V_{CE}=5.0\text{V}, I_C=1.0\text{mA}$	60		80		
h_{FE}	$V_{CE}=5.0\text{V}, I_C=10\text{mA}$	60	250	80	250	
h_{FE}	$V_{CE}=5.0\text{V}, I_C=50\text{mA}$	20		30		
h_{fe}	$V_{CE}=10\text{V}, I_C=1.0\text{mA}, f=1.0\text{kHz}$	50	200	50	200	
f_T	$V_{CE}=10\text{V}, I_C=10\text{mA}, f=100\text{MHz}$	100	300	100	300	MHz
C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$		6.0		6.0	pF
C_{ib}	$V_{BE}=0.5\text{V}, I_C=0, f=1.0\text{MHz}$		30		20	pF
NF	$V_{CE}=5.0\text{V}, I_C=250\mu\text{A}, R_S=1.0\Omega, f=10\text{Hz TO } 15.7\text{kHz}$		10		8.0	dB

AMEYA360

Components Supply Platform

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