

NTE2696 Silicon NPN Transistor Low Noise Audio Amplifier TO-92 Type Package (Compl to NTE234)

Description:

The NTE2696 is a silicon NPN transistor in a TO-92 type package designed for use in low frequency and low noise applications. The function of this device is to lower the noise figure in the region of low signal source impedance, and to lower the pulse noise. The NTE2696 can also be used in the first stages of equalizer amplifiers.

Features:

Low Noise:

NF = 4db (Typ), R_G = 100 $\!\Omega$, V_{CE} = 6V, I_C = 100 $\!\mu$ A, f = 1kHz NF = 0.5db (Typ), R_G = 1k $\!\Omega$, V_{CE} = 6V, I_C = 100 $\!\mu$ A, f = 1kHz

• Low Pulse Noise: Low I/f Noise

High DC Current Gain: h_{FE} = 350 to 700

High Breakdown Voltage: V_{CFO} = 120V

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Collector-Base voltage, v _{CBO}	1200
Collector–Emitter Voltage, V _{CEO}	120V
Emitter-Base Voltage, V _{EBO}	5V
Collector Current, I _C	100mA
Base Current, I _B	20mA
Collector Power Dissipation, P _C	300mW
Operating Junction Temperature, T _J	+125°C
Storage Temperature Range, T _{stg}	–55° to +125°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

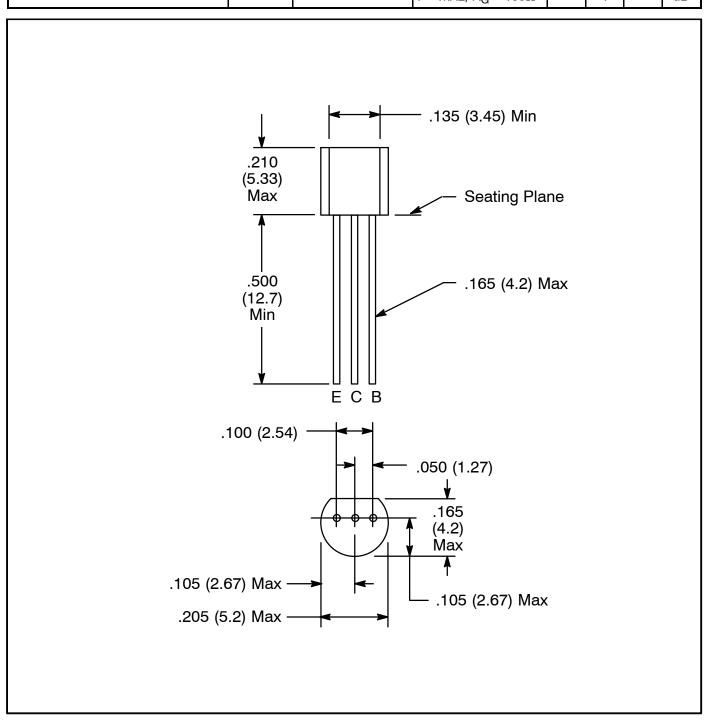
Parameter	Symbol	Test Conditions		Тур	Max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} = 120V, I _E = 0	_	_	0.1	μΑ
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 5V, I_C = 0$	ı	ı	0.1	μΑ
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1mA$, $I_C = 2mA$	120	_	_	V



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<u>Electrical Characteristics (Cont'd):</u> $(T_A = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit
DC Current Gain	h _{FE}	V _{CE} = 6V, I _C = 2mA		350	_	700	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 10mA, I _B = 1mA		_	_	0.3	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = 6V, I_C = 2mA$		_	0.65	_	V
Transition Frequency	f _T	$V_{CE} = 6V, I_{C} = 1mA$		_	100	_	MHz
Collector Output Capacitance	C _{ob}	$V_{CB} = 10V$, $I_E = 0$, $f = 1MHz$		_	3.0	_	pF
Noise Figure	NF $V_{CE} = 6V$,	V _{CE} = 6V,	$f = 10Hz, R_G = 10k\Omega$	_	_	6	dB
		$I_C = 0.1 \text{mA}$	$f = 1kHz, R_G = 10k\Omega$	-	-	2	dB
			$f = 1kHz$, $R_G = 100\Omega$	-	4	-	dB



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