CAR AUDIO

Dolby B/C Type NR. [SMD]

NR9572 is a hybrid IC which is made from NR9570 as base for single and dual power supply and to realize mounted type.

FEATURES

- A micro computer can control the selection of Dolby ON/OFF and Dolby B/C.
- As it is mounted type hybrid IC, the substrate design can be more effective and the mounted substrate can be more integrated.
- Tray feeding is enabled so that the automatic substrate mounting is easily realized.

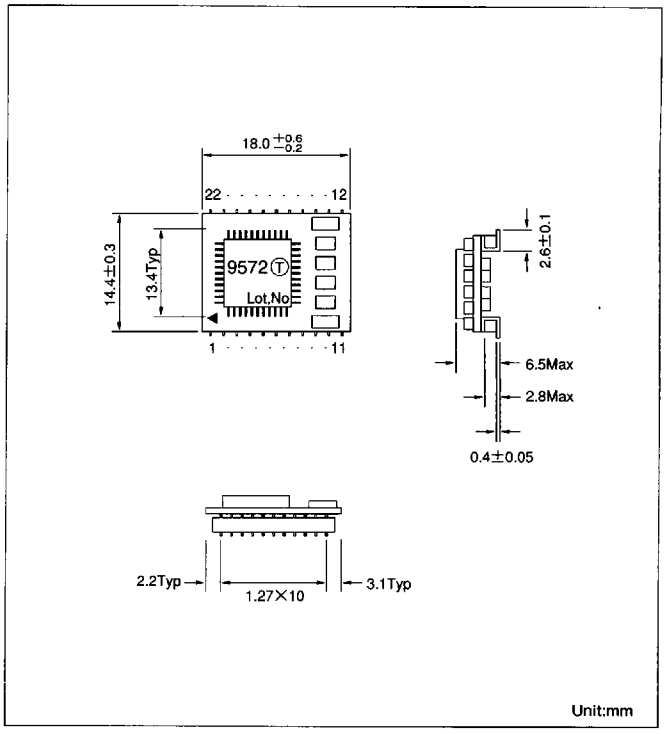
Note) The term "Dolby" and double D signs are the trademarks of the Dolby Institute. The hybrid IC of this model can be supplied only by manufacturers approved as licensee by the Dolby Institute.

ABSOLUTE MAXIMUM RATING

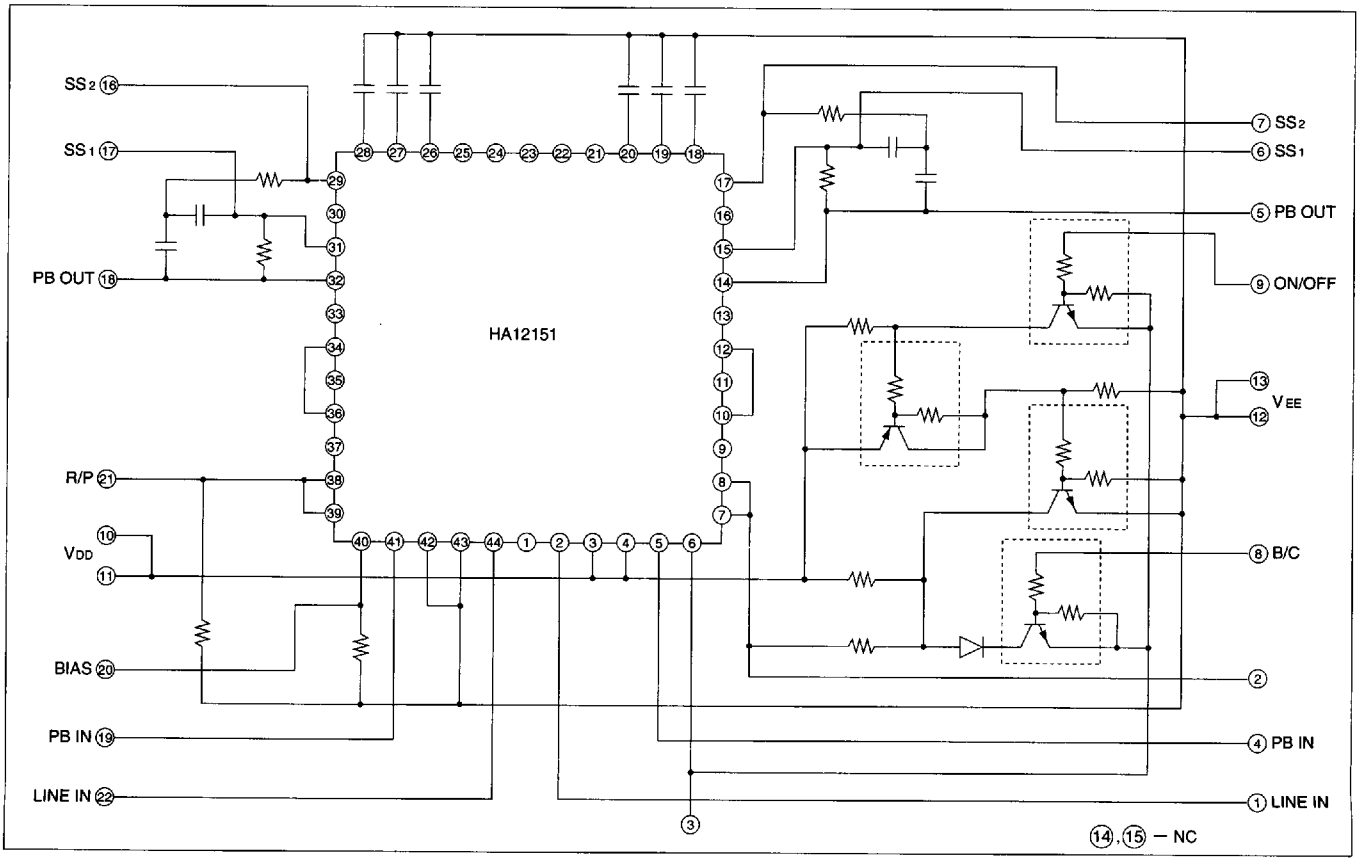
(T_A = 25℃)

Item	Symbol	Rating	Unit
Supply voltage	V_{DD}–V_{EE}	±8	V
Power dissipation	P_D	336	mW
Operating temperature	Topr	−30 ~ +85	℃
Storage temperature	Tstg	−30 ~ +85	℃

OUTLINE DIMENSIONS



INTERNAL CIRCUIT



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ELECTRICAL CHARACTERISTICS

T_A=25℃, V_{DD}=6.0±0.1V, Vcc=5±0.1V, V_{EE}=−6.0±0.1V

No.	Item	Symbol	Specifications Min	Typ	Max	Unit	Condition	NR	F(Hz)
1	Supply current	Icc		15	21	mA	Quiescent	off	
2	Voltage gain	Gv	18	20	22	dB	Vo=0dB	off	1k
3	Decode characteristics B-type	B-1	−5.8	−4.3	−2.8	dB	Vo=−20dB	B ↓ off	2k
		B-2	−4.7	−3.2	−1.7	dB	Vo=−20dB		5k
4	Decode characteristics C-type	C-1	−7.9	−5.9	−3.9	dB	Vo=−20dB	C ↓ off	1k
		C-2	−21.6	−19.6	−18.1	dB	Vo=−60dB		1k
		C-3	−13.8	−11.8	−9.8	dB	Vo=−30dB		700
5	Over load margin	Vo max	12	13		dB	THD : 1%, V_{DD}=+3.8V, V_{EE}=−3.8V	off	1k
6	Signal/noise ratio	S/N	75	82		dB	Vo=0dB, Rg=5100 CCIR/ARM	C	
7	Total harmonic distortion	THD_1		0.03	0.15	%	Vo=0dB, 30kHz LPF	off	1k
		THD_2		0.05	0.3	%		C	
8	Crosstalk	CT	70	80		dB	Vo=0dB, 30kHz LPF	off	1k
9	Right-left level difference	CB	−1	0	+1	dB	Vo=0dB	off	1k

TEST CIRCUIT