

**NTE1320**  
**Integrated Circuit**  
**Module, Hybrid, Audio Power Amp,**  
**25W, 2 Power Supplies Required**

**Absolute Maximum Ratings:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

|  |                                     |
|--|-------------------------------------|
| Supply Voltage, $V_{CCmax}$ .....  | $\pm 37\text{V}$                    |
| Collector Current, $I_{Cmax}$ .....  | 5A                                  |
| Operating Junction Temperature, $T_J$ .....  | $+150^\circ\text{C}$                |
| Storage Temperature Range, $T_{stg}$ .....   | $-30^\circ$ to $+105^\circ\text{C}$ |
| Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....   | $2.4^\circ\text{C/W}$               |
| Allowable Load Shorting Time ( $V_{CC} = \pm 25\text{V}$ , $f = 50\text{Hz}$ , $R_L = 8\Omega$ , $P_O = 25\text{W}$ ), $t_s$ ..... | 2sec                                |

**Recommended Operating Conditions:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

|                                |                  |
|--------------------------------|------------------|
| Supply Voltage, $V_{CC}$ ..... | $\pm 25\text{V}$ |
| Load Resistance, $R_L$ .....   | $8\Omega$        |

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = \pm 25\text{V}$ ,  $R_L = 8\Omega$ ,  $R_g = 600\Omega$ ,  $V_G = 40\text{dB}$  unless otherwise specified)

| Parameter                 | Symbol    | Test Conditions   | Min | Typ  | Max | Unit |
|---------------------------|-----------|---|-----|------|-----|------|
| Quiescent Current         | $I_{CCO}$ | $V_{CC} = \pm 30\text{V}$   | –   | 40   | 80  | mA   |
| Output Power              | $P_O$     | THD = 0.1%, $f = 20\text{Hz}$ to $20\text{kHz}$                         | 25  | –    | –   | W    |
| Total Harmonic Distortion | THD       | $P_O = 1\text{W}$ to $25\text{W}$ , $f = 20\text{Hz}$ to $20\text{kHz}$ | –   | –    | 0.1 | %    |
|                           |           | $P_O = 1\text{W}$ , $f = 1\text{kHz}$                                   | –   | 0.02 | –   | %    |

**Pin Connection Diagram**  
(Front View)

