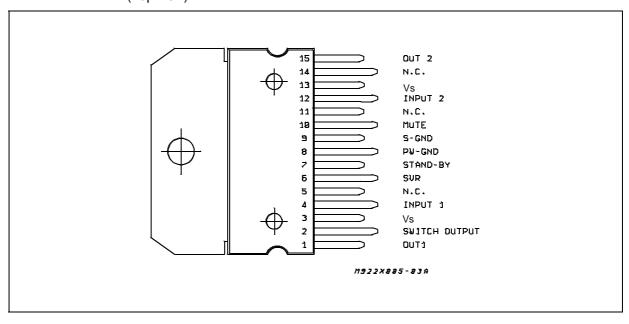
PIN CONNECTION (Top view)



ABSOLUTE MAXIMUM RATINGS

| Symbol | Parameter | Value | Unit | |
|-----------------------------------|---|--------------------------|------|--|
| Vs | DC Supply Voltage | 28 | V | |
| V_{OP} | Operating Supply Voltage | 18 | V | |
| V_{PEAK} | Peak Supply Voltage (t = 50ms) | 40 | V | |
| lo | Audio Channels Output Peak Current (not rep. t = 100μs) | 4 | Α | |
| Ιο | Audio Channels Output Peak Current (rep. f > 10Hz) | 3 | Α | |
| Ιο | Switch Output Peak Current | (internally limited) 1.5 | Α | |
| P _{tot} | Power Dissipation (T _{case} = 85°C) | 32 | W | |
| T _{stg} , T _j | Storage and Junction Temperature | -40 to 150 | °C | |

THERMAL DATA

| Symb | Description | Value | Unit | |
|----------------------|----------------------------------|-------|------|------|
| R _{th j-ca} | Thermal Resistance Junction-case | Max | 2 | °C/W |

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ELECTRICAL CHARACTERISTICS (Refer to the test circuit; $V_S = 14.4V$; $R_L = 4\Omega$, $T_{amb} = 25$ °C, f = 1kHz, unless otherwise specified)

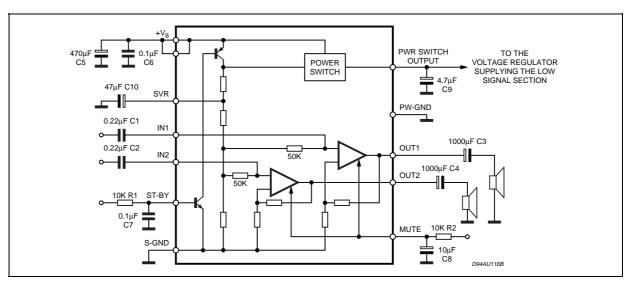
| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Unit |
|---------------------|-------------------------------|--|------|----------|------|----------|
| Vs | Supply Range | | 8 | | 18 | V |
| I _d | Total Quiescent Drain Current | Power Switch Unloaded | | 80 | | mA |
| Po | Output Power | $R_L = 4\Omega$; THD = 10% each channel | 5.5 | 6 | | W |
| | | $R_L = 2\Omega$; THD = 10% each channel | | 9 | | W |
| d | Distortion | $P_0 = 0.1 \text{ to } 3W$ | | 0.08 | 0.3 | % |
| СТ | Cross Talk | $f = 1kHz; R_g = 0$ $f = 10kHz; R_g = 0$ | 50 | 55 50 | | dB dB |
| R _{IN} | Input Impedance | | 40 | 50 | | ΚΩ |
| G_V | Voltage Gain | | 39 | 40 | 41 | dB |
| G_V | Voltage Gain Match. | | | | 1 | dB |
| E _{IN} | Input Noise Voltage (*) | Rg = 0 | | 1.2 | 5 | μV |
| SVR | Supply Voltage Rejection | $R_g = 0$; $f = 100Hz$; $V_r = 0.5V_{rms}$ | 45 | 50 | | dB |
| ASB | Stand-by Attenuation | | 60 | 90 | | dB |
| I _{SB} | ST-BY Current Consumption | | | | 100 | μΑ |
| V _{SB IN} | ST-BY IN Threshold Voltage | | | | 1.5 | V |
| V _{SB OUT} | ST-BY OUT Threshold Voltage | | 3.5 | | | V |
| V _{MIN} | MUTE IN Threshold Voltage | | | | 1.5 | V |
| V _{м оит} | MUTE OUT Threshold Voltage | | 3.5 | | | V |

POWER SWITCH CHARACTERISTICS

| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Unit |
|-------------------|---------------------------|----------------|------|------|------|------|
| I_{Op} | Continuous Output Current | | | 1.2 | | Α |
| V _{DROP} | Dropout Voltage | lo = 1A | | | 1.4 | V |

(*) 22Hz to 22KHz (**) A weighted

TEST AND APPLICATION CIRCUIT



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Figure 1: P.C.Board and component layout of the Test and Application Circuit 1:1 scale.

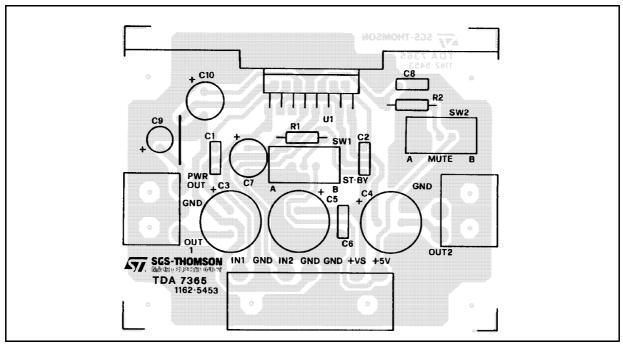


Figure 2: Quiescent Drain Current vs. Supply Voltage

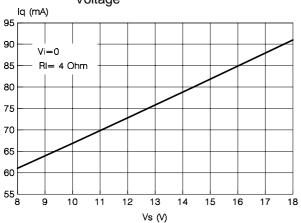


Figure 4: Output Power vs. Supply Voltage

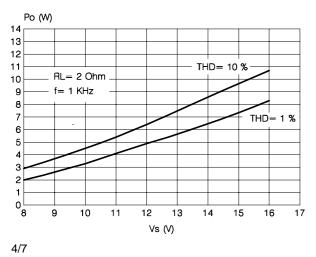


Figure 3: Output Power vs. Supply Voltage

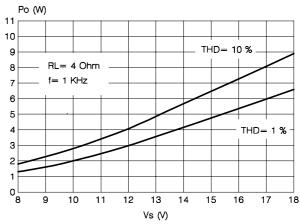
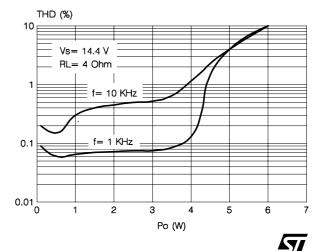


Figure 5: Distortion vs. Output Power



Fiigure 6: Distortion vs. Frequency

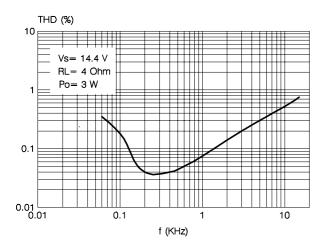
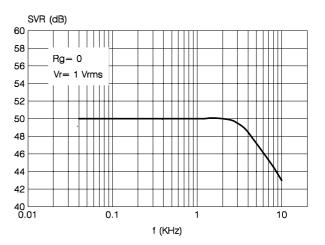


Figure 7: Supply Voltage Rejection



Fiigure 8: Cross-Talk vs. Frequency

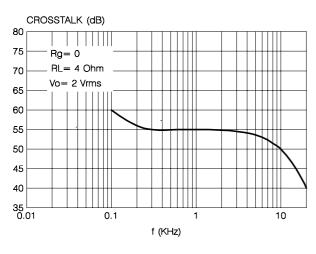


Figure 9: Switch Drop-out vs. Switch Current

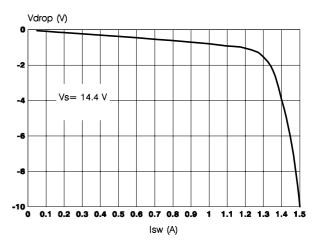


Figure 10: Total Power Dissipation and Efficiency vs. Output Power

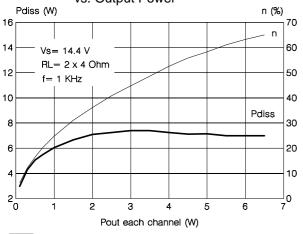
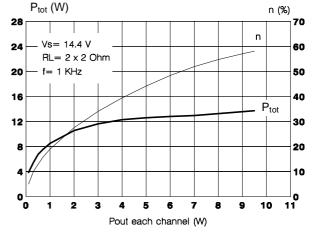


Figure 11: Total Power Dissipation and Efficiency

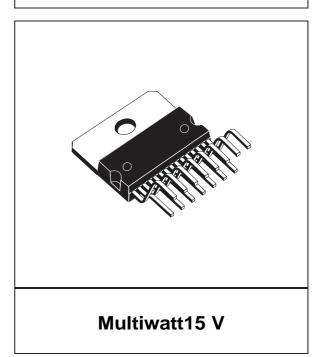


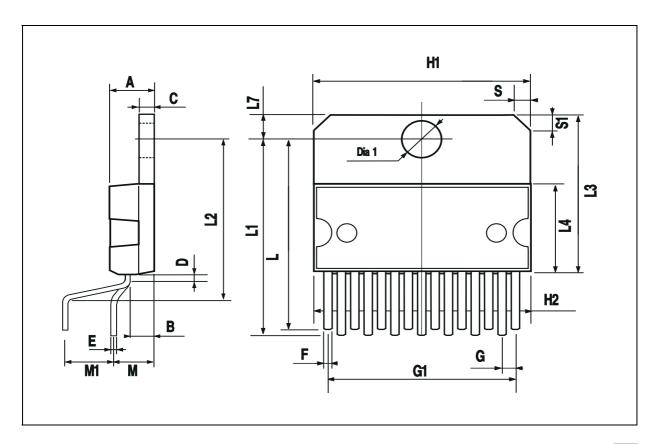
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| DIM. | mm | | | inch | | | |
|------|-------|-------|-------|-------|-------|-------|--|
| DIN. | MIN. | TYP. | MAX. | MIN. | TYP. | MAX. | |
| Α | | | 5 | | | 0.197 | |
| В | | | 2.65 | | | 0.104 | |
| С | | | 1.6 | | | 0.063 | |
| D | | 1 | | | 0.039 | | |
| Е | 0.49 | | 0.55 | 0.019 | | 0.022 | |
| F | 0.66 | | 0.75 | 0.026 | | 0.030 | |
| G | 1.02 | 1.27 | 1.52 | 0.040 | 0.050 | 0.060 | |
| G1 | 17.53 | 17.78 | 18.03 | 0.690 | 0.700 | 0.710 | |
| H1 | 19.6 | | | 0.772 | | | |
| H2 | | | 20.2 | | | 0.795 | |
| L | 21.9 | 22.2 | 22.5 | 0.862 | 0.874 | 0.886 | |
| L1 | 21.7 | 22.1 | 22.5 | 0.854 | 0.870 | 0.886 | |
| L2 | 17.65 | | 18.1 | 0.695 | | 0.713 | |
| L3 | 17.25 | 17.5 | 17.75 | 0.679 | 0.689 | 0.699 | |
| L4 | 10.3 | 10.7 | 10.9 | 0.406 | 0.421 | 0.429 | |
| L7 | 2.65 | | 2.9 | 0.104 | | 0.114 | |
| М | 4.25 | 4.55 | 4.85 | 0.167 | 0.179 | 0.191 | |
| M1 | 4.63 | 5.08 | 5.53 | 0.182 | 0.200 | 0.218 | |
| S | 1.9 | | 2.6 | 0.075 | | 0.102 | |
| S1 | 1.9 | | 2.6 | 0.075 | | 0.102 | |
| Dia1 | 3.65 | | 3.85 | 0.144 | | 0.152 | |

OUTLINE AND MECHANICAL DATA





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