

SI-1125HD

Absolute Maximum Rating ($T_A=25^\circ\text{C}$)

| Characteristics | Rating | Conditions |
|---|----------------|---|
| Supply Voltage (V) V_{CC} | ± 35 | |
| Operating Temperature ($^\circ\text{C}$) T_{OP} | $-30 \sim 100$ | Heat Sink Temperature |
| Storage Temperature ($^\circ\text{C}$) T_{STG} | $-30 \sim 120$ | |
| Allowable Output Short Time (sec) t_s | 2.0 | $V_{CC} = \pm 35\text{V}$, $P_o = 25\text{W}$, $f = 1\text{kHz}$, Specified Power Supply |
| Junction Temperature ($^\circ\text{C}$) T_j | 150 | Junction Temperature of Power Transistor |
| Thermal Resistance ($^\circ\text{C}/\text{W}$) θ_j | 3.3 max. | Between Junction of Power Transistor and Heat Sink |

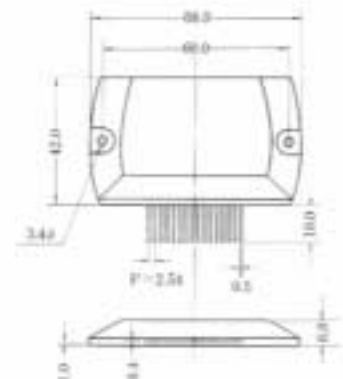
Electrical Characteristics $8\ \Omega$ (4 Ω) Load (per channel) $T_A=25^\circ\text{C}$

| Characteristics | Rating | | | Conditions |
|---|----------------------------|------|------|---|
| | Min. | Typ. | Max. | |
| Supply Voltage (V) V_{CC} | ± 25 (± 22.5) | | | |
| Supply Current (A) I_{CC} | 0.8 (1.15) | | | |
| Output Power (W) P_o | 25 | | | 1kHz, T.H.D. = 0.2% |
| Power Band Width (Hz) PBW | 10-20 k | | | T.H.D. = 0.2%, -1dB |
| Frequency Response (Hz) f | 10-100k | | | $P_o = 1\text{W}$, -1dB |
| Voltage Gain (dB) G_v | 40 | | | $R_1 = R_2 = 56\text{k}\Omega$ $R_3 = 560\Omega$ |
| Input Impedance ($\text{k}\Omega$) Z_{in} | 56 | | | $R_1 = R_3 = 56\text{k}\Omega$ |
| Idling Current (mA) I_d | 30 | 50 | 80 | $V_{CC} = \pm 32\text{V}$ |
| Output Noise Voltage (mV) V_N | 1.0 2.0 | | | $R_f = 10\text{k}\Omega$, Specified Power Supply |
| Output Quiescent Point Voltage (mV) V_o | ± 100 | | | $V_{CC} = \pm 20\text{V} \sim \pm 35\text{V}$ |

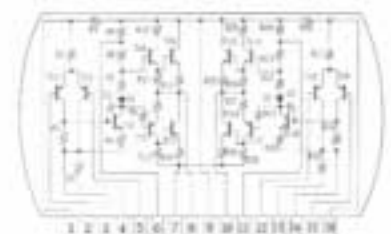
25W Dual channel Amp with tone control circuit installable in feedback circuit.



OUTLINE DRAWINGS in mm



SCHEMATIC



- 1.16. Ripple Filter Capacitor (+)
- 2.15. Input Capacitor (-)
- 3.14. Ripple Filter Capacitor (-)
- 4.13. Power Supply (-V_{ee})
- 5.12. Feedback Resistor
- 6.11. Bootstrap Capacitor (+)
7. Power Supply (-V_{ee})
8. CH-2 Output
9. Power Supply (+V_{cc})
10. CH-1 Output

SUPPLY VOLTAGE-MAXIMUM OUTPUT POWER

