

■ ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise specified)

| Item | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|------------------|
| Supply Voltage (pin 6) | V_6 | 15 | V |
| Supply Current (pin 11) | I_{11} | 20 | mA |
| Power Dissipation | P_T | 500* | mW |
| Operating Temperature Range | T_{opr} | -20 to +75 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

* Value at $T_a=75^\circ\text{C}$
■ ELECTRICAL CHARACTERISTICS

| Item | | Symbol | Test Condition | min. | typ. | max. | Unit |
|-------------------|----------------------------------|-------------------------------|---|-----------|-----------|--------|----------------------|
| Horizontal Block | Regulated Voltage | V_{11} | $I_{11}=15\text{mA}$ | — | 12.8 | — | V |
| | Free-running Frequency | f_{oh} | H. Hold Vol = 2k Ω | 14,734 | 15,734 | 16,734 | Hz |
| | Pull-in Range | f_{ph} | | ± 450 | ± 650 | — | Hz |
| | DC loop gain (1) | f_{c1} | | 512 | 640 | 853 | Hz/ μs |
| | DC loop gain (2) | f_{c2} | Vertical Interval | 1,540 | 2,000 | 2,860 | Hz/ μs |
| | f_{oh} Temperature Coefficient | $\Delta f_{oh}/\Delta T$ | | -6 | -3 | 0 | Hz/ $^\circ\text{C}$ |
| | Output Pulse Width | t_{HW} | Pin 10 | 20 | 22.5 | 25 | μs |
| Osc. stop voltage | V_{D13} | $I_{13}=10\mu\text{A}$ | 0.665 | 0.715 | 0.765 | V | |
| Vertical Block | Free-running Frequency | f_{ov} | V. Hold Vol = 2.9k Ω | 55 | 60 | 65 | Hz |
| | Pull-in Range | f_{pv} | | — | -10 | -7.5 | Hz |
| | f_{ov} Temperature Coefficient | $\Delta f_{ov}/\Delta T$ | | -0.03 | 0 | +0.03 | Hz/ $^\circ\text{C}$ |
| | f_{ov} V_{CC} Coefficient | $\Delta f_{ov}/\Delta V_{CC}$ | $f_{ov}=f_{ov}(14.4\text{V})=f_{ov}(9.6\text{V})$ | -2 | 0 | +2 | Hz |
| | Voltage of Pin 4 | V_4 | | 3.8 | 4.0 | 4.2 | V |