

PRODUCT SUMMARY

The PBL38610/1R1 is a Subscriber Line Interface Circuit (SLIC) is a 90 V bipolar integrated circuit for use in PBX, Terminal adapters and other telecommunications equipment. The PBL38610/1R1 has been optimized for low total line interface cost and a high degree of flexibility in different applications. The PBL38610/1R1 emulates a transformer equivalent dc-feed, programmable between $2 \times 25\Omega$ and $2 \times 900\Omega$, with short loop current limiting adjustable to max 65mA.

PARAMETRICS

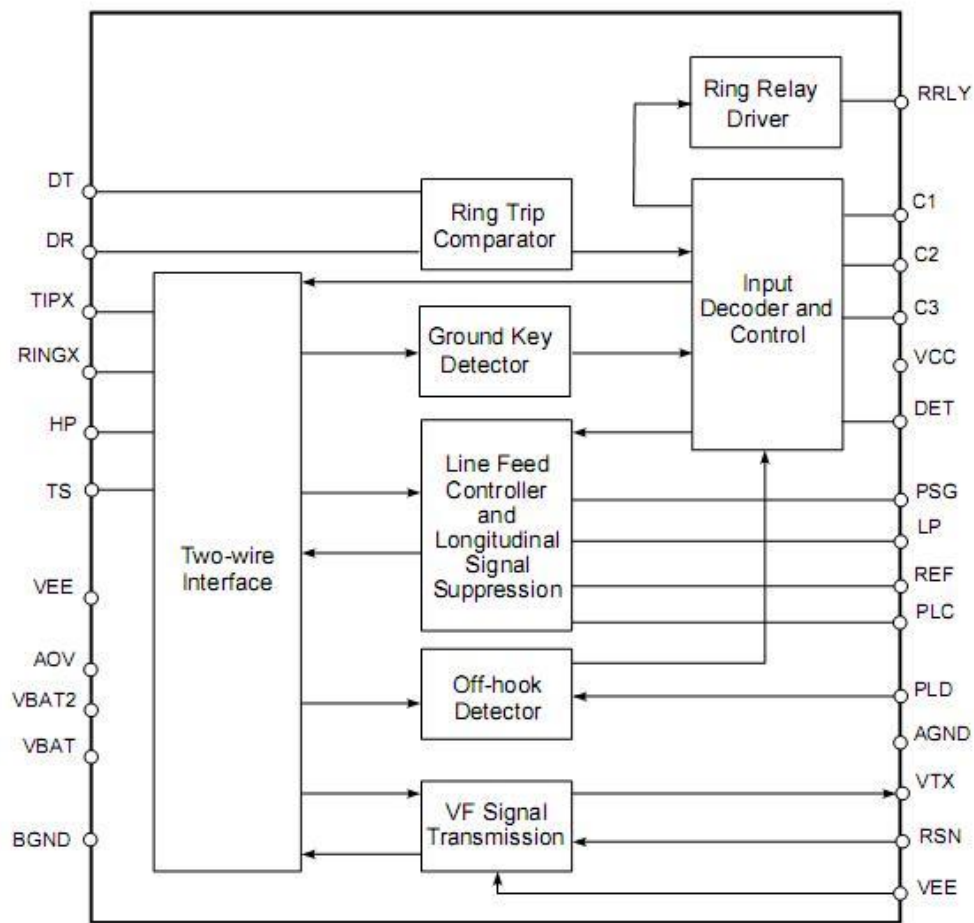
PBL38610/1R1 maximum ratings: (1) Storage temperature range T_{stg} : -55 to +150°C; (2) Operating temperature range T_{Amb} : -40 to +110°C; (3) Operating junction temperature range, T_J : -40 to +140°C; (4) Power supply, $0^\circ\text{C} \leq T_{Amb} \leq +70^\circ\text{C}$: V_{cc} with respect to AGND V_{cc} : -0.4 to 6.5V, V_{EE} with respect to AGND, V_{EE} : V_{Bat} , 0.4V, V_{Bat} with respect to BGND, continuous, V_{Bat} : -75 to 0.4V; (5) Continuous power dissipation at $T_{Amb} \leq 70^\circ\text{C}$, P_D : 1.5W; (6) Voltage between AGND and BGND V_G : -5 , V_{CC} ; (7) Ring relay current: 75mA.

FEATURES

PBL38610/1R1 features: (1) Selectable overhead voltage principle; (2) High and low battery with automatic switching; (3) Battery supply as low as -10V; (4) Only +5V in addition to GND; (5) 35mW on-hook power dissipation in active state; (6) 44V open loop voltage @ -48 V battery feed; (7) Full longitudinal current capability during on-hook; (8) Integrated Ring Relay Driver.



DIAGRAMS



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