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MAX662EVKIT-SO

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MAX662A Evaluation Kit

General Description

The MAX662A evaluation kit (EV kit) is an assembled surface-mount board that allows easy evaluation of the MAX662A or MAX662. The EV kit schematic is the standard circuit shown in Figure 3a on page 5 of the MAX662A data sheet. A 3-pin jumper connector and a shunt are included to allow easy control of normal-operation and shutdown modes.

Ordering Information

PART	TEMP. RANGE	BOARD TYPE
MAX662AEVKIT-SO	0°C to +70°C	Surface Mount

Component List

DESIGNATION	QTY	DESCRIPTION
C1, C2	2	0.22µF ceramic SMD chip capacitors
C3	1	0.1µF ceramic SMD chip capacitor (MAX662 only)
C4, C5	2	4.7µF low-ESR tantalum capacitors
J1	1	3-pin jumper
None	1	Shunt
U1	1	MAX662ACSA
None	1	MAX662A data sheet
None	1	1.5" x 1.1" PC board

Operating Instructions

Pin 1 of the 3-pin jumper connector is tied to ground, pin 2 is tied to the SHDN pin of the MAX662A, and pin 3 is tied to V_{CC} (Figure 1). Connect the jumper shunt across pins 1 and 2 of jumper connector J1 for normal operation. **Note: The MAX662A EV kit will be in shutdown mode if the jumper shunt is not inserted across J1. The SHDN pin has an internal pull-up to V_{CC}, and therefore must be connected to ground for proper operation.** Connect the jumper shunt across jumper connector pins 2 and 3, or simply remove the jumper shunt to observe shutdown-mode operation.

Observe the power-supply input voltage limits specified in the data sheet. Do not short the output to ground. Also, do not excessively load the output—V_{OUT} should not fall below V_{CC}. If the above conditions are violated, the device may be damaged.

PC Board Layout

The EV kit printed circuit board layouts (Figures 2 and 3) can be copied directly and incorporated into production boards.

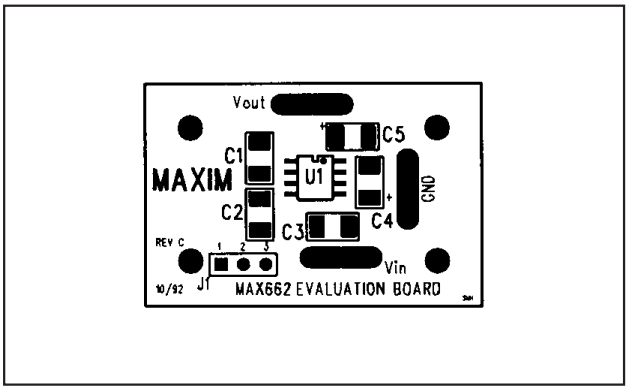

Figure 1. MAX662A EV Kit Surface-Mount Component Placement Diagram (1x scale)

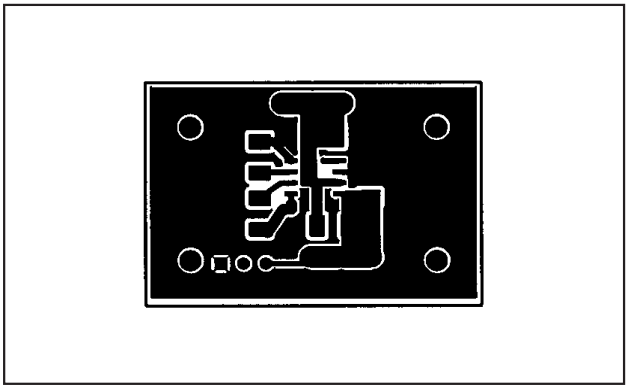

Figure 2. MAX662A EV Kit PC Board Layout—Component Side (1x scale)

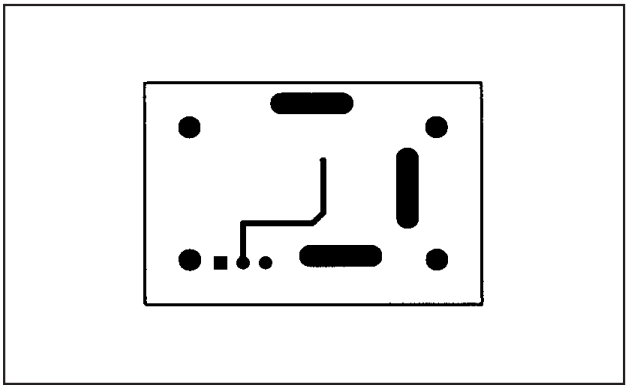

Figure 3. MAX662A EV Kit PC Board Layout—Solder Side (1x scale)