



 78×98 mils

PAD FUNCTION

- 1. Offset Adjust
- 2. -IN
- 3.+IN
- 4.V- (Substrate)
- 5. Do Not Connect
- 6. OUT
- 7. V+
- 8. Offset Adjust

Backside (substrate) is an alloyed gold layer. Connect to V⁻.

DIE CROSS REFERENCE (Notes 1, 2)

LTC Finished	Order DICE CANDIDATE
Part Number	Part Number Below
RH07	RH07 DICE

DICE ELECTRICAL TEST LIMITS $V_S=\pm 15 V,\ V_{CM}=0 V,\ T_A=25^{\circ} C$ unless otherwise noted.

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNITS
V _{OS}	Input Offset Voltage			100	μV
los	Input Offset Current			3	nA
I _B	Input Bias Current			±4	nA
CMRR	Common Mode Rejection Ratio	$V_{CM} = \pm 13$	105		dB
PSRR	Power Supply Rejection Ratio	$V_S = \pm 3V$ to $\pm 18V$	98		dB
A _{VOL}	Large-Signal Voltage Gain	$R_L \ge 2k$, $V_0 = \pm 12V$	200		V/mV
V _{OUT}	Maximum Output Voltage Swing	$\begin{aligned} R_L &\geq 2k \\ R_L &\geq 1k \end{aligned}$	±11.5 ±10.0		V
SR	Slew Rate	$R_L \ge 2k$	0.1		V/µs
P _D	Power Dissipation	No Load No Load, $V_S = \pm 3V$		120 6	mW mW

Note 1: Dice are probe tested at 25°C to the limits shown. Final specs after assembly cannot be guaranteed at the die level due to yield loss and assembly shifts. For absolute maximum ratings, typical specifications, performance curves and finished product specifications, please refer to the standard data sheet.

Note 2: For dice tested to tighter limits than those listed above and/or lot qualification based on sample lot assembly and testing, please contact LTC marketing.



DICE SPECIFICATION

RH07

Rad Hard die require special handling as compared to standard IC chips.

Rad Hard die are susceptible to surface damage because there is no silicon nitride passivation as on standard die. Silicon nitride protects the die surface from scratches by its hard and dense properties. The passivation on Rad Hard die is silicon dioxide that is much "softer" than silicon nitride

LTC recommends that die handling be performed with extreme care so as to protect the die surface from scratches. If the need arises to move

the die around from the chip tray, use a Teflon-tipped vacuum wand. This wand can be made by pushing a small diameter Teflon tubing onto the tip of a steel-tipped wand. The inside diameter of the Teflon tip should match the die size for efficient pickup. The tip of the Teflon should be cut square and flat to ensure good vacuum to die surface. Ensure the Teflon tip remains clean from debris by inspecting under stereoscope.

During die attach, care must be exercised to ensure no tweezers touch the top of the die.

Wafer level testing is performed per the indicated specifications for dice. Considerable differences in performance can often be observed for dice versus packaged units due to the influences of packaging and assembly on certain devices and/or parameters. Please consult factory for more information on dice performance and lot qualifications via lot sampling test procedures.

Dice data sheet subject to change. Please consult factory for current revision in production.

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