

Data Sheet 1LC281

Active area: 28 x 1 mm
Ring shaped
Diam. 8.9 mm
257° angle

Chip area: 12.7 x 12.7 mm

Package size: 25.4 x 25.4 mm

Characteristics	Symbol	Min.	Typ.	Max.	Unit
Position non-linearity			0,05	0,15	% (±)
Detector resistance	R_{det}	100	150	200	k Ω
Leakage current	I_d		20	100	nA
Noise current	i_{noise}		0,5	0,8	pA/ $\sqrt{Hz}$
Responsivity	r		0,7		A/W
Capacitance	C_j		300	400	pF
Rise time (10%-90%)	t_r		10	16	ns
Bias voltage (reverse)	V_R	5	10	15	V
Thermal drift			40	100	ppm/°C

Maximum ratings

Reverse voltage	V_{R-max}		20	V
Operating temperature	T_{oper}		70	°C
Storage temperature	T_{stg}		100	°C

Test conditions: Room temperature 23 °C, bias voltage 10V, light source wavelength 940 nm. Position non-linearity and thermal drift are valid within 80 % of the detector length. Thermal drift is measured from 23° to 70°C.

Package: Ceramic substrate with solder pads.

Part. no. S1- 0008 **Framtagen av LL** **Date 010131**