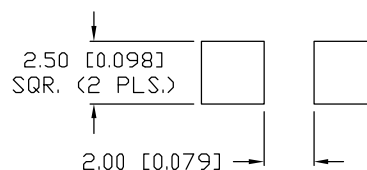


RECOMMENDED SOLDER PAD LAYOUT

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		850		nm	
FORWARD VOLTAGE		1.45	1.65	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
RADIANT INTENSITY	2.0	5.0		mW/SR	$I_f=20\text{mA}$
HALF ANGLE		± 20		degrees	
EPOXY LENS FINISH: WATER CLEAR					

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1000	mA
STEADY CURRENT	65	mA
POWER DISSIPATION	130	mW
DERATE FROM 25°C	-1.2	mW/ $^\circ\text{C}$
OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY	3 SEC. MAX	

* $t < 100\mu\text{s}$, $t_p/T=0.01$

NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. 1,000 PCS. PER REEL.

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=+DECIMAL PRECISION MAX=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER

OED-LXL1209CL850TR

3.2 x 2.4mm SURFACE MOUNT IR EMITTER,
850nm INFRARED, WATER CLEAR LENS,
TAPE AND REEL.

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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