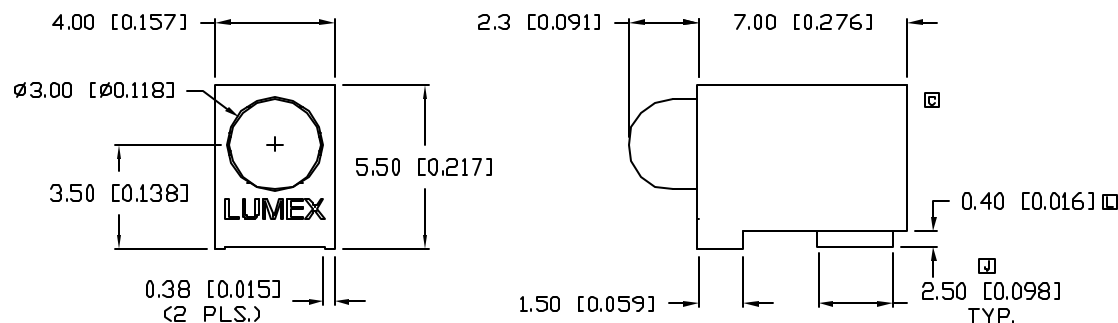


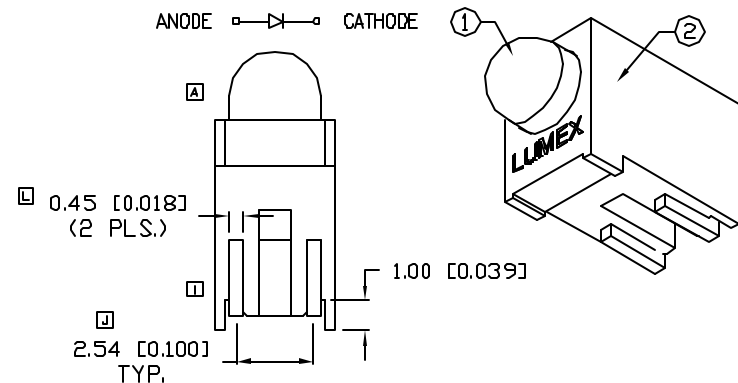


THE DATASHEET OF SSF-LXH305ID

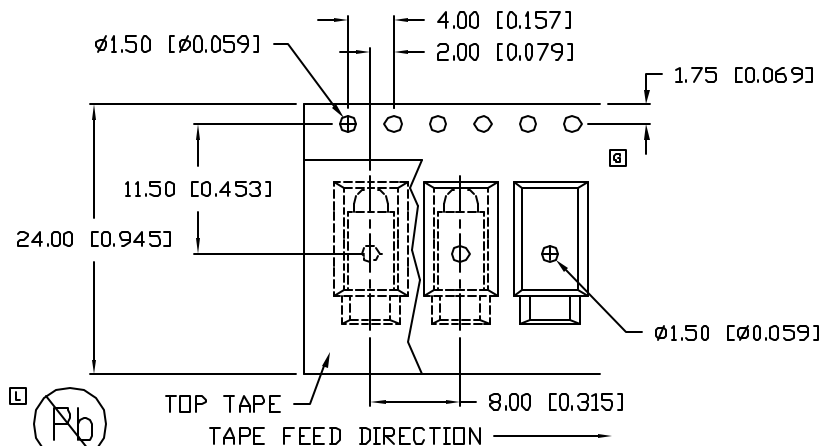
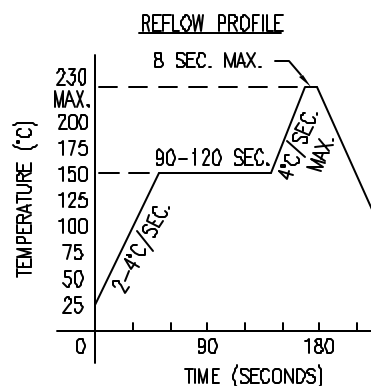
UNCONTROLLED DOCUMENT



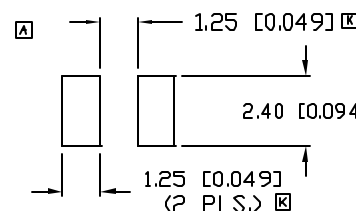
ANODE CATHODE



PATENT PENDING



RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER		REV.
SSF-LXH305ID(-TR)		L

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	ADDED SOLDER PROFILE.	5.13.94
B	UPDATED SAFE OPER SPECS.	9.12.94
C	UPDATED SAFE OPER SPECS.	11.16.94
D	CORRECTED PROTRUSION	3.13.95
E	ADDED TAPE AND REEL OPTION.	7.5.95
F	E.C.N. #10BRDR. & REDRAWN.	10.15.97
G	E.C.N. #10625.	5.22.00
H	E.C.N. #10683.	11.30.00
I	E.C.N. #10782.	11.6.01
J	E.C.N. #10855	4.22.02
K	E.C.N. #10864.	5.15.02
L	E.C.N. #11311. & 11148.	2.20.06

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	
FORWARD VOLTAGE		2.0	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		40		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	

EMITTED COLOR: RED

EPOXY LENS FINISH: RED DIFFUSED

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM 25°C	-1.6	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+230	$^\circ\text{C}$
	3 SEC. MAX	

* $t < 10\mu\text{s}$ NOTES:

1. SSL-LXH305F6ID, RED LED.
2. SSH-LXH305, BLACK HOLDER.
3. -TR SUFFIX TO DESIGNATE TAPE AND REEL SUPPLIED.
4. CARRIER TAPE #LXP-CARRIER24-56.

UNCONTROLLED DOCUMENT

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

REV.	PART NUMBER
L	SSF-LXH305ID(-TR)
T-3mm (T-1) RIGHT ANGLE SURFACE MOUNT LED, 635nm RED LED, RED DIFFUSED 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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PAGE:	1 OF 1	
SCALE:	N/A	

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- ✓ Alternative Solution
- ✓ Excess Inventory Management