

## Excellent Integrated System Limited

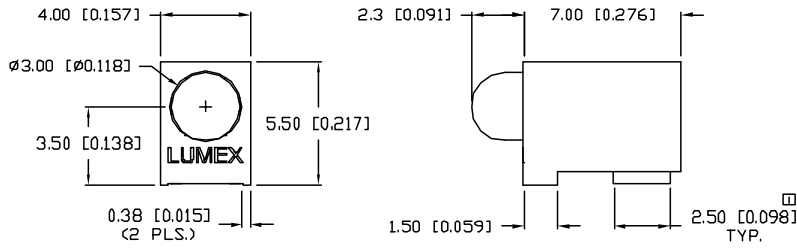
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Lumex, Inc.](#)  
[SSF-LXH305SRD-TR](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

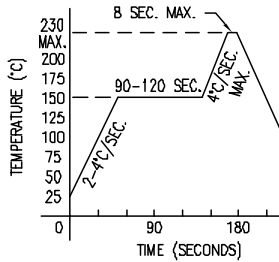
UNCONTROLLED DOCUMENT



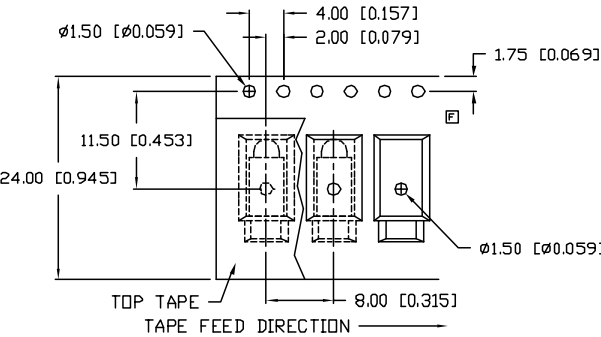
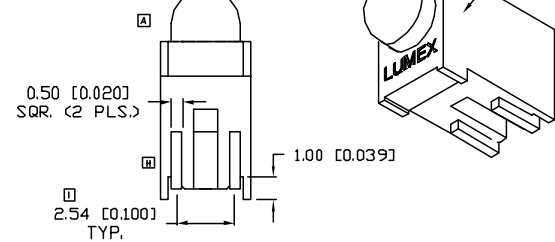
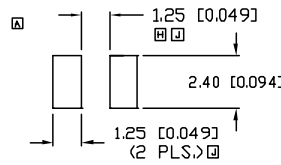
ANODE CATHODE

PATENT PENDING

REFLOW PROFILE



RECOMMENDED SOLDER PAD LAYOUT



\*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 MAX.=+DECIMAL PRECISION

PART NUMBER		REV.
SSF-LXH305SRD(-TR)		J
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	CORRECTED LED PROTRUSION.	3.13.95
D	ADDED TAPE AND REEL OPTION.	7.5.95
E	E.C.N. #10BRDR & REDRAWN.	10.15.97
F	E.C.N. #10625.	5.22.00
G	E.C.N. #10683.	11.30.00
H	E.C.N. #10782.	11.6.01
I	E.C.N. #10855.	4.22.02
J	E.C.N. #10864.	5.15.02

ELECTRO-OPTICAL CHARACTERISTICS TA=25°C If=20mA

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660		nm	
FORWARD VOLTAGE		1.7	2.2	Vf	If=100µA
REVERSE VOLTAGE	4.0			Vr	If=20mA
AXIAL INTENSITY		80		mcd	If=20mA
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	SUPER 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	100	mW
DERATE FROM 25°C	-1.6	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+230	°C

\* t<10µS  
 3 SEC. MAX

- NOTES:  
 1. SSL-LX305F4SRD, RED LED.  
 2. SSH-LXH305, BLACK HOLDER.  
 3. -TR SUFFIX TO DESIGNATE TAPE AND REEL SUPPLIED.  
 4. CARRIER TAPE #LXP-CARRIER24-56.

UNCONTROLLED DOCUMENT

REV.	PART NUMBER
J	SSF-LXH305SRD(-TR)

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T-3mm (T-1) RIGHT ANGLE SURFACE MOUNT LED,  
 660nm SUPER RED LED,  
 RED DIFFUSED LENS, TAPE AND REEL.

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.

DRAWN BY: BC	CHECKED BY:	APPROVED BY:	DATE: 3.3.94
			PAGE: 1 OF 1
			SCALE: N/A