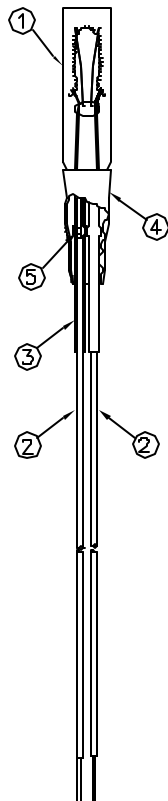


UNCONTROLLED DOCUMENT



NOTES:

1. CRIMP LEAD WIRES TO UNCUT LED LEADS
2. HEAT SHRINK INSULATION
3. ANODE: 24 AWG STRANDED RED INSULATION, 6" LONG, STRIP 5/16"
4. CATHODE: 24 AWG STRANDED, BLACK INSULATION, LONG STRIP 5/16"

NOTES:

1. ITL-LX55BWT LAMP.
2. LEAD WIRES (2 PLS): 26 AWG, STRANDED, TINNED, BLACK INSULATION CUT 155mm LONG, STRIP 4mm AND 9.5mm
3. HEAT SHRINK INSULATION (2 PLS): 1/16" DIAMETER X 16mm LONG.
4. HEAT SHRINK INSULATION (1 PL): 3/16" DIAMETER X 16mm LONG
5. CUT LAMP LEADS APPROX 1/4" LONG, CRIMP LEADS WIRES TO LAMP LEADS WITHIN 1/4" FROM GLASS SEAL
6. COVER CRIMP AND LAMP WITH HEAT SHRINK AS SHOWN TO PROVIDE STRAIN RELIEF.

ENVIRONMENTAL SPECIFICATIONS

VIBRATION TESTING:	MIL-E-5400N, GRAPH IV
SHOCK TEST:	MIL-STD-883 METHOD 2002 TEST COND A
OPERATING TEMPERATURE:	-50 TO +100 °C
STORAGE TEMPERATURE:	-50 TO +125 °C
SOLDERABILITY OF LEADS:	MIL-STD-202F METHOD 2080

PART NUMBER

ITL-LX55BWT-150

REV.

A

REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

A E.C.N. #11148.

03.13.07

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		655 (RED)		nm	
FORWARD VOLTAGE		1.7	2.1	V_f	
REVERSE VOLTAGE	3.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		3.0		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		80		2x theta	
EMITTED COLOR		RED			
EPOXY LENS FINISH:		RED DIFFUSED			

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT	70	mA
AVG FORWARD CURRENT	20	mA
POWER DISSIPATION	160	mW
DERATE FROM 25° C	-1.4	mW/° C
OPERATING/STORAGE TEMP.	-55 TO +100	° C
LEAD SOLDERING TEMP.	+260	° C

ELECTRO-OPTICAL SPECIFICATIONS

OPERATING VOLTAGE VDC OR VAC:	50-60 V
DESIGN VOLTAGE VDC OR VAC:	55.0 V
CURRENT DRAW @ DESIGN VOLTS:	100 mA
END FOOT CANDLES @ DESIGN VOLTS:	1800
AVERAGE LIFE @ DESIGN VOLTS:	5,000 HRS

MECHANICAL SPECIFICATIONS

BULB SIZE & SHAPE:	T 6.5 TUBULAR
BULB GLASS TYPE:	KG12 SEMI SOFT
FILAMENT SHAPE:	C-2F
L.C.L. IF APPLICABLE:	N/A
MANUFACTURING PSS:	IFL/6.5 WT



UNCONTROLLED DOCUMENT

*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.=^{+0.00}_{-0.00} DECIMAL PRECISION MAX.=^{+0.00}_{-0.00} DECIMAL PRECISION

REV.

A

PART NUMBER

ITL-LX55BWT-150

CONFIDENTIAL INFORMATION

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

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.



290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

T-6.5mm WITH 6" WIRE LEADS.

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 6.10.92

PAGE: 1 OF 1

SCALE: N/A