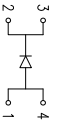
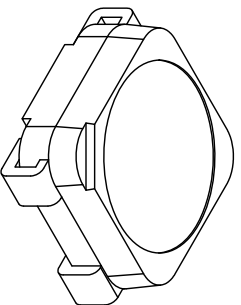




**THE DATASHEET OF
SML-LX1110UPGC-BTR**

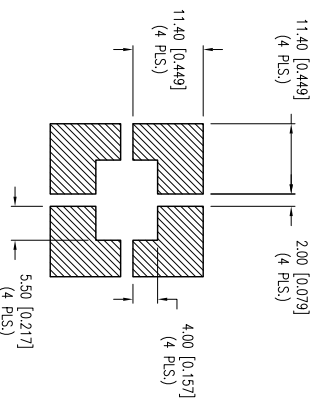


PART NUMBER	SML-LX1110UPGC-BTR	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS	REV.	
01.14.11	E.C.N. #11688.		A



ANODE MARK

0.50 [0.020]
 0.40 [0.094]



RECOMMENDED SOLDER PAD LAYOUT

ⓧ ELECTRO-OPTICAL CHARACTERISTICS $I_A=25^\circ\text{C}$ $I_f=350\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		525		nm	
FORWARD VOLTAGE	2.7	3.3	3.8	V _f	
REVERSE VOLTAGE	5.0			V _r	
AXIAL INTENSITY		20		cd	$I_f=350\text{mA}$
LUMINOUS FLUX		42	60	lm	$I_f=350\text{mA}$
VIEWING ANGLE		120		2 \times theta	
EMITTED COLOR:		GREEN			
EPOXY LENS FINISH:		WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	350	mA
POWER DISSIPATION	1.3	W
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

ⓧ THERMAL PARAMETERS

PARAMETER	VALUE	UNITS
MAXIMUM JUNCTION TEMPERATURE	110	°C
THERMAL RESISTANCE JUNCTION-CASE	47	°C/W

CAUTION: MOISTURE SENSITIVE DEVICE
 PER JEDEC LEVEL 6 STANDARDS

CAUTION: STATIC SENSITIVE DEVICE
 FOLLOW PROPER E.S.D. HANDLING PROCEDURES
 WHEN WORKING WITH THIS PART.

X=X±1 (+0.039), X-X=±0.5 (+0.020), X-XX=±0.25 (+0.010), XXXX=±0.127 (+0.005), LEAD SIZE=±0.05 (+0.002), LEAD LENGTH=±0.75 (+0.030), MIN.= -0.001, MAX.= +0.001, PRECISION

HELEN ROAD

E. I. L 60067-6976
 +1.847.359.2790
 WWW.LUMEX.COM

PLCC-4 SMT LED, HIGH POWER, 525nm ULTRA SUPER GREEN.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

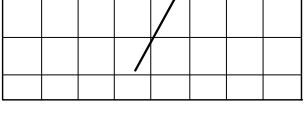
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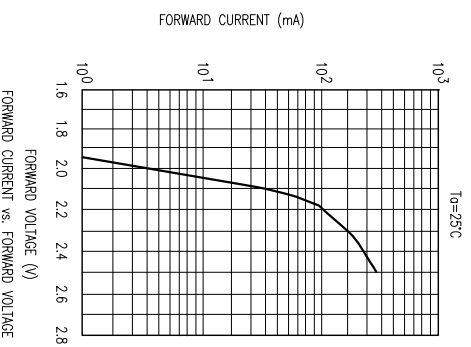
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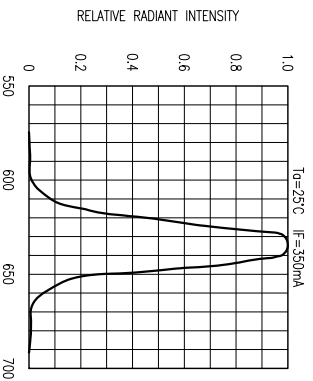
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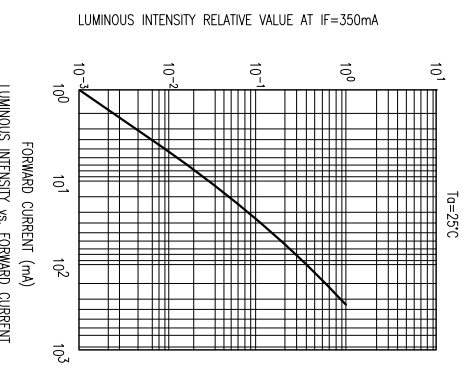
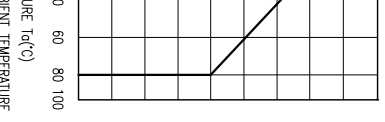
T_j=25°C
FORWARD CURRENT (mA) vs. FORWARD VOLTAGE (V)



T_j=25°C
FORWARD CURRENT (mA) vs. FORWARD VOLTAGE (V)



T_j=25°C, I_f=350mA
RELATIVE RADIANT INTENSITY vs. WAVELENGTH



T_j=25°C
LUMINOUS INTENSITY RELATIVE VALUE AT I_f=350mA vs. FORWARD CURRENT

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PLCC-4 SMT LED, HIGH POWER, 525nm ULTRA SUPER GREEN.

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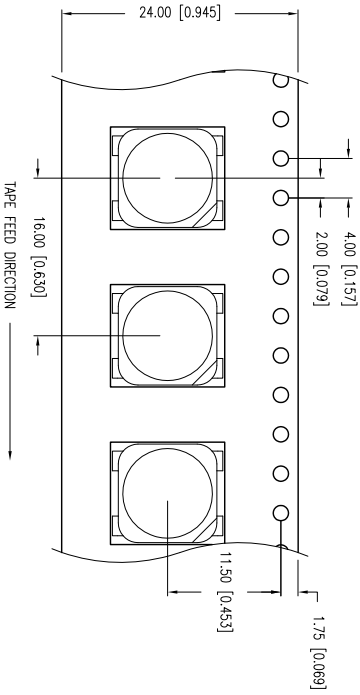
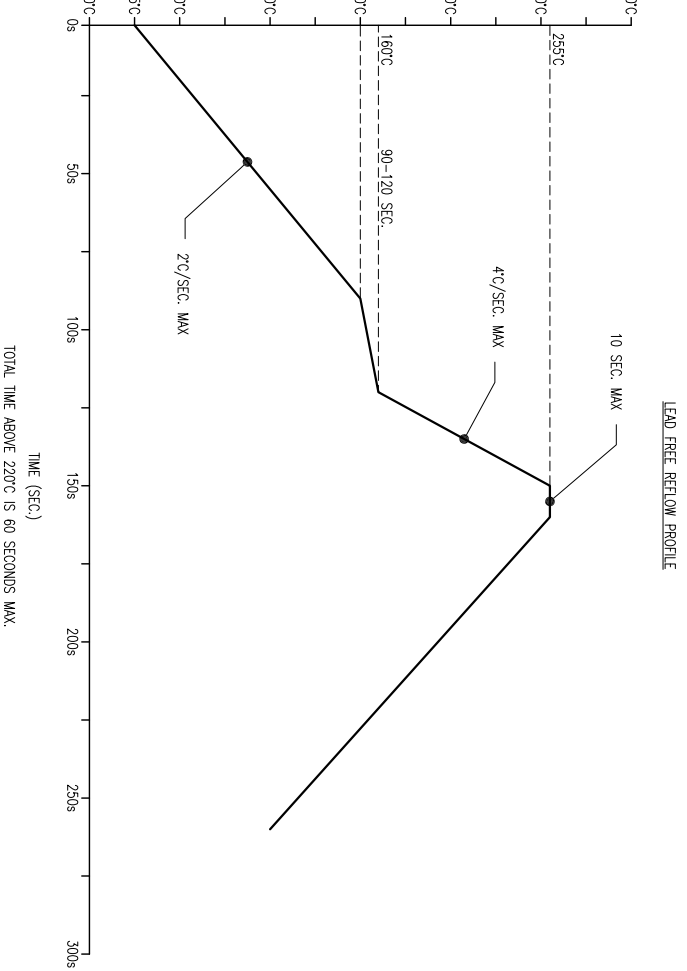
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- NOTES:
1. ANODE TOWARDS THE TAPE HOLE.

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 (-0.000) DECIMAL PRECISION MAX.= +0.00 (-0.000) DECIMAL PRECISION

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