

UNCONTROLLED DOCUMENT

PART NUMBER
SLX-LX504E3UPGD

REV.

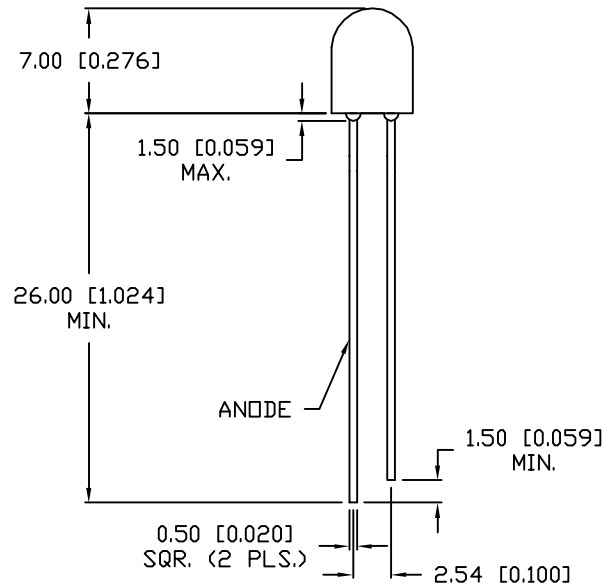
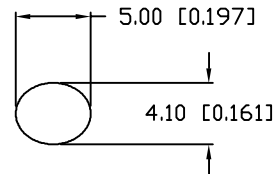
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REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

A E.C.N. #11599.

11.19.09



NOTES:

1. BIN GRADE TO BE INDICATED ON LABEL AS Vf-MCD-nm

(1) FORWARD VOLTAGE BINS

BIN	V _f @20mA	
	MIN (V.)	MAX (V.)
1	2.8	2.9
2	2.9	3.0
3	3.0	3.1
4	3.1	3.2
5	3.2	3.3
6	3.3	3.4
7	3.4	3.5
8	3.5	3.6

ELECTRO-OPTICAL CHARACTERISTICS T_A=25°C I_f=20mA

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH (3)		520		nm	
FORWARD VOLTAGE (1)	2.8		3.6	V _f	
REVERSE VOLTAGE	5.0			V _r	I _r =100μA
AXIAL INTENSITY (2)	4800		9375	mcd	I _f =20mA
VIEWING ANGLE (X)		55		2x theta	
VIEWING ANGLE (Y)		35		2x theta	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	GREEN DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C PER DIE

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	20	mA
POWER DISSIPATION	80	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-30 TO +80	°C
STORAGE TEMP.	-40 TO +100	°C

*1/10 DUTY CYCLE, 0.1ms PULSE WIDTH

(2) AXIAL INTENSITY BINS

BIN	INTENSITY@20mA	
	MIN (mcd)	MAX (mcd)
1	4800	6000
2	6000	7500
3	7500	9375

(3) DOMINANT WAVE LENGTH BINS

BIN	WAVELENGTH@20mA	
	MIN (nm)	MAX (nm)
A	520	522
B	522	524
C	524	526
D	526	528
E	528	530



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*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

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SLX-LX504E3UPGD

5.0 x 4.1mm OVAL LED, 520nm GREEN,
GREEN DIFFUSED LENS.

CONFIDENTIAL INFORMATION

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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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SCALE: N/A