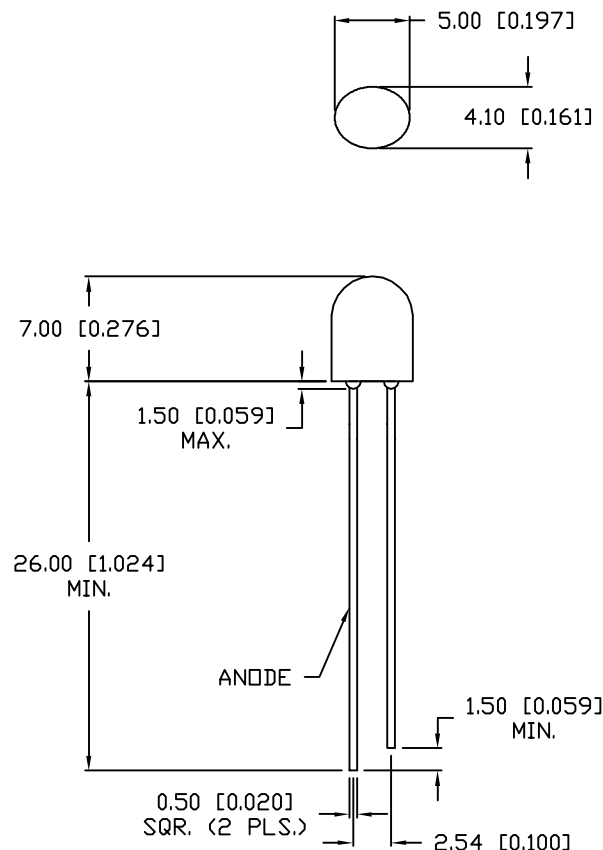


UNCONTROLLED DOCUMENT

PART NUMBER
SLX-LX504E3SID/1REV.
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11599.	11.18.09



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	1.9	2.0
2	2.0	2.1
3	2.1	2.2
4	2.2	2.3
5	2.3	2.4
6	2.4	2.5

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH (3)		635		nm	
FORWARD VOLTAGE (1)		2.1	2.5	V _f	
REVERSE VOLTAGE	5.0			V _r	I _r =100μA
AXIAL INTENSITY (2)	2200		5400	mcd	I _f =20mA
VIEWING ANGLE (X)		60		2x theta	
VIEWING ANGLE (Y)		35		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C PER DIE

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	35	mA
POWER DISSIPATION	90	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	2200	2750
2	2750	3440
3	3440	4300
4	4300	5400
5	5400	6700

(3) DOMINANT WAVE LENGTH BINS

BIN	WAVELENGTH@20mA	
	MIN (nm)	MAX (nm)
A	620	624
B	624	628
C	628	632



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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 -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.
APART NUMBER
SLX-LX504E3SID/15.0 x 4.1mm OVAL LED, 635nm SUPER HIGH INTENSITY RED,
RED DIFFUSED LENS.

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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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