

## Excellent Integrated System Limited

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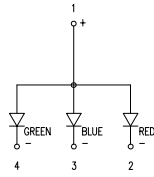
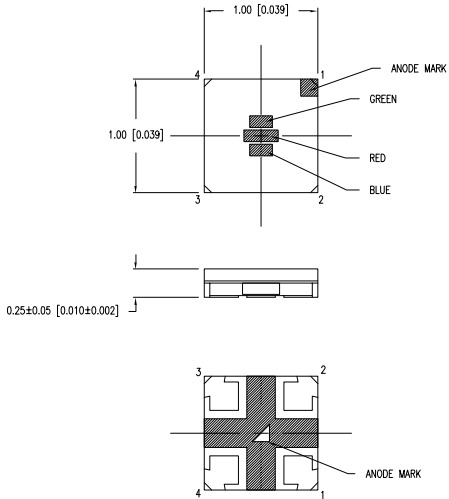
[SML-LX0404SIUPGUSB](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

UNCONTROLLED DOCUMENT

PART NUMBER	SML-LX0404SIUPGUSB	REV.
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ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=2\text{mA}$

PARAMETER	RED	GREEN	BLUE	UNITS	TEST COND
PEAK WAVELENGTH	632	518	465	nm	
FORWARD VOLTAGE MIN	1.75	2.75	2.60	$V_f$	
FORWARD VOLTAGE MAX	2.15	2.95	2.85	$V_f$	
REVERSE CURRENT MAX	10	50	50	$\mu\text{A}$	$V_r = 5\text{V}$
AXIAL INTENSITY	30	40	20	mcd	$I_f = 2\text{mA}$
VIEWING ANGLE	120	120	120	$2x \theta_{\text{theta}}$	
EMITTED COLOR:	RED/GREEN/BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

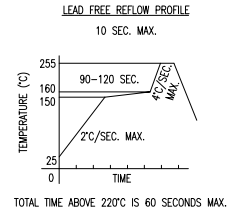
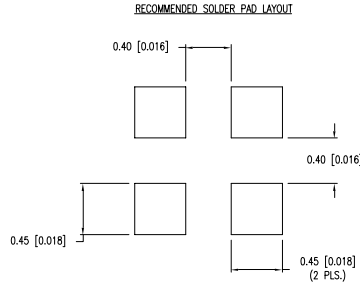
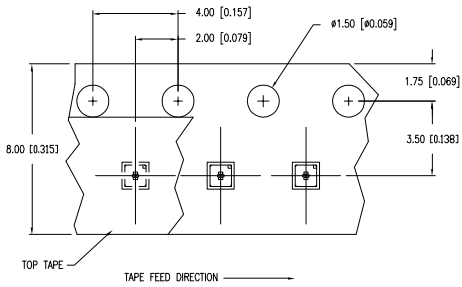
LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT* (R/G/B)	60/100/20	mA
STEADY CURRENT (R/G/B)	30/25/10	mA
POWER DISSIPATION (R/G/B)	60/95/30	mW
DERATE FROM $25^{\circ}\text{C}$	-1.2	mW/ $^{\circ}\text{C}$
OPERATING TEMP.	-40 TO +85	$^{\circ}\text{C}$
STORAGE TEMP.	-40 TO +85	$^{\circ}\text{C}$

\*DUTY 1/10 @ 1KHz

NOTES:  
 1. THE ANODE IS ORIENTED AWAY FROM THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 4 STANDARDS



\*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, MAX.=+0.00, DECIMAL PRECISION -0.00



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1.0mm x 1.0mm P.C.B. SML, FULL COLOR, WATER CLEAR LENS, TAPE AND REEL.  
 \*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*  
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DATE:	06.02.10	DRAWN BY:	JH
PAGE:	1 OF 1	CHKD BY:	KF
SCALE:	N/A	APRVD BY:	JD
UNIT:	mm [INCH]		