



We Tame Photons to Work for You!



Products > LEDs > Thru-Hole > Round > 5mm > Standard > Standard Intensity



### Features / Options

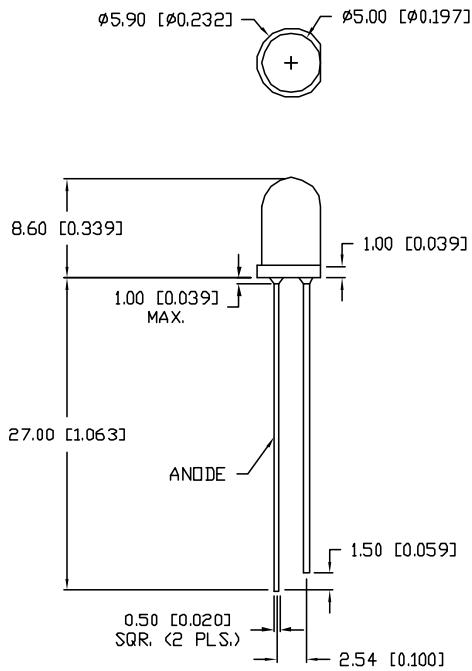
- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Lead Frame / Lens Casting Reliability
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ Available Bulk or on Tape and Reel
- ▶ Lead Trimming and Forming Available
- ▶ Custom Shapes, Easily Tooled, Low Minimum

### Applications / Uses

- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SSL-LX5093AD	STANDARD	GaAsP	Amber	605	Diffused	2.1	30	60		—
SSL-LX5093AT	STANDARD	GaAsP	Amber	605	Color Tinted	2.1	80	30		—
SSL-LX5093GD	STANDARD	GaP	Green	565	Diffused	2.0	30	60		—
SSL-LX5093HD	STANDARD	GaP	Red	700	Diffused	2.1	30	60		—
SSL-LX5093ID	STANDARD	GaAsP	Red	635	Diffused	2.0	40	60		—
SSL-LX5093IGW	STANDARD	GaAsP	Red/Green	635	White Diffused	2.1	30	60		—
SSL-LX5093IT	STANDARD	GaAsP	Red	635	Color Tinted	2	80	30		—
SSL-LX5093SBC/A	STANDARD	SiC	Blue	430	Clear	3.5	100	30		—
SSL-LX5093SBD	STANDARD	SiC	Blue	430	Diffused	4.5	25	20		—
SSL-LX5093SGC/B	STANDARD	GaP	Green	565	Clear	2.1	300	30		—

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PART NUMBER  
SSL-LX50931D

REV.  
D

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	CHG'D AXIAL INTENSITY.	5.15.90
B	REDRAWN, UPDATED SPECS.	1.6.95
C	E.C.N. #10BRDR. & REDRAWN IN 3D.	5.24.01
D	E.C.N. #1114B	10.19.06

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	
FORWARD VOLTAGE		2.0	2.5	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY		40		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED DIFFUSED				

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM $25^\circ\text{C}$	-1.2	$\text{mW}/^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		3 SEC. MAX

\*  $t < 10\mu\text{s}$



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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XI=±0.5 (±0.020), XIX=±0.25 (±0.010), XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= -0.00 DECIMAL PRECISION MAX.= +0.00 DECIMAL PRECISION

REV. D	PART NUMBER SSL-LX50931D
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T-5mm (T-1 3/4) 635nm RED LED,  
RED DIFFUSED LENS.

**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.

DRAWN BY: JC	CHECKED BY:	APPROVED BY:	DATE: 10.19.06 PAGE: 1 OF 1 SCALE: N/A
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