



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		—

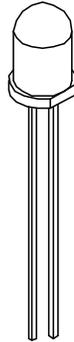
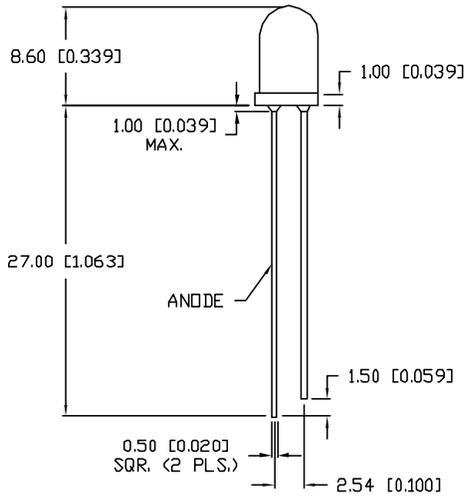
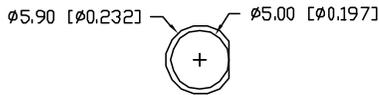
SSL-LX5093SGD		STANDARD	GaP	Green	565	Diffused	2.0	40	60		—
SSL-LX5093YD		STANDARD	GaAsP	Yellow	585	Diffused	2.1	30	60		—

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PART NUMBER
SSL-LX5093YD

REV.
C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	REDRAWN, UPDATED SPECS.	2.10.95
B	E.C.N. #10BRDR. & REDRAWN IN 3D.	5.25.01
C	E.C.N. #1114B	10.30.06



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		585		nm	
FORWARD VOLTAGE		2.1	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		30		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	YELLOW				
EPOXY LENS FINISH:	YELLOW DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM 25°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), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

REV. C	PART NUMBER SSL-LX5093YD
T-5mm (T-1 3/4) 585nm YELLOW LED, YELLOW 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.



DRAWN BY: JC	CHECKED BY:	APPROVED BY:	DATE: 10.30.06 PAGE: 1 OF 1 SCALE: N/A
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