



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

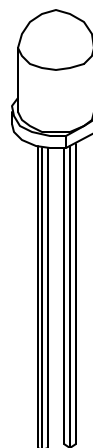
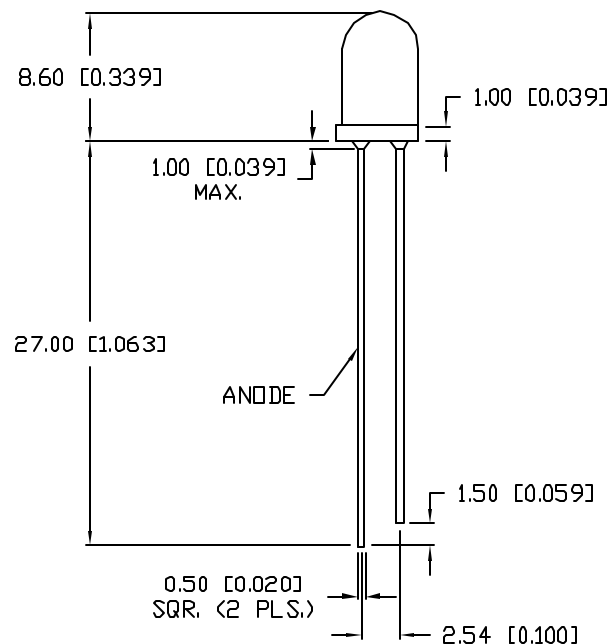
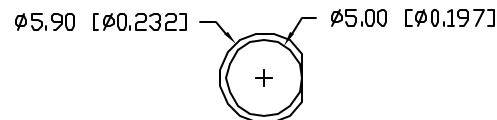
Applications / Uses

- ▶ 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-LX5093YDREV.
C

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	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), 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

REV.
CPART NUMBER
SSL-LX5093YDT-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