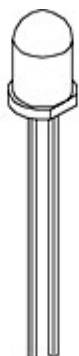




We Tame Photons to Work for You!



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

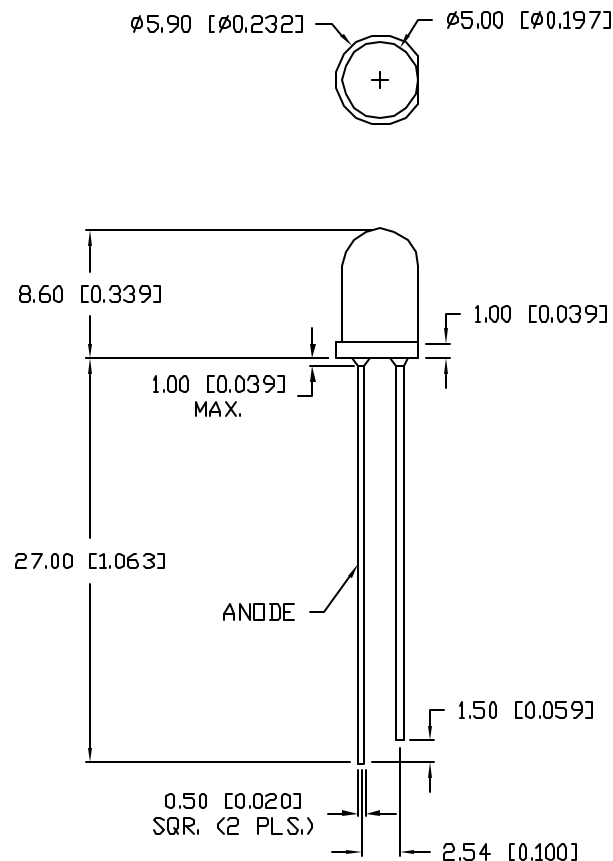
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

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-LX5093PC		HIGH	InGaP	Pink	-	Clear	3.5	2200	20		—
SSL-LX5093PGD		STANDARD	GaP	Green	555	Diffused	2.1	30	60		—
SSL-LX5093PGT		STANDARD	GaP	Green	555	Color Tinted	2.0	50	30		—
SSL-LX5093SIC		HIGH	AlInGaP	Red	636	Clear	2.0	1800	30		—
SSL-LX5093SID		HIGH	AlInGaP	Red	636	Diffused	2.0	700	60		—
SSL-LX5093SOC		HIGH	AlInGaP	Orange	610	Clear	2.0	2500	30		—
SSL-LX5093SOD		HIGH	AlInGaP	Orange	610	Diffused	2.0	850	60		—
SSL-LX5093SRC/DU		STANDARD	GaAlAs	Red	660	Clear	1.7	1300	30		—
SSL-LX5093SRC/DV		STANDARD	GaAlAs	Red	660	Clear	1.7	1600	30		—
SSL-LX5093SRC/DW		STANDARD	GaAlAs	Red	660	Clear	1.7	2000	30		—

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PART NUMBER
SSL-LX5093SICREV.
B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	5.31.01
B	E.C.N. #11148	10.23.06

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		636		nm	
FORWARD VOLTAGE		2.0	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY		1800		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		30		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

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

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

UNCONTROLLED DOCUMENT

*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 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.
BPART NUMBER
SSL-LX5093SICT-5mm 636nm SUPER HIGH INTENSITY RED LED,
WATER CLEAR LENS.

CONFIDENTIAL INFORMATION
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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: 10.23.06 PAGE: 1 OF 1 SCALE: N/A
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