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

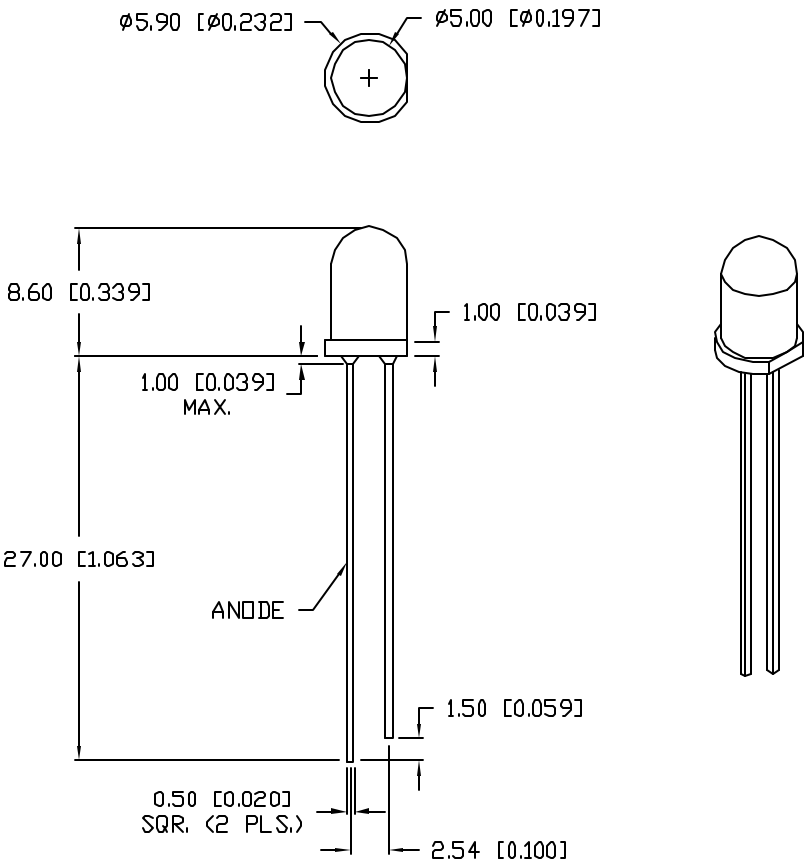
- Board or Panel Indication or Illumination
- Annunciator and Control Panels
- Telecom Switches and Central Station Equipment
- Large Panel Indicators

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		

UNCONTROLLED DOCUMENT

PART NUMBER	REV.
SSL-LX5093ID	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. #11148	10.19.06



ELECTRO-OPTICAL CHARACTERISTICS T_A=25°C I_f=20mA

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_r=100µA
AXIAL INTENSITY		40		mcd	I_f=20mA
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED 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/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY		3 SEC. MAX

* t<10µS

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= $^{\pm\text{DECIMAL PRECISION}}_{-0.00}$ MAX.= $^{+0.00}_{-\text{DECIMAL PRECISION}}$

REV.	PART NUMBER
D	SSL-LX5093ID

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