



We Tame Photons to Work for You!



Products > LEDs > Thru-Hole > Round > 3mm > Mechanical Features > Short Lens



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

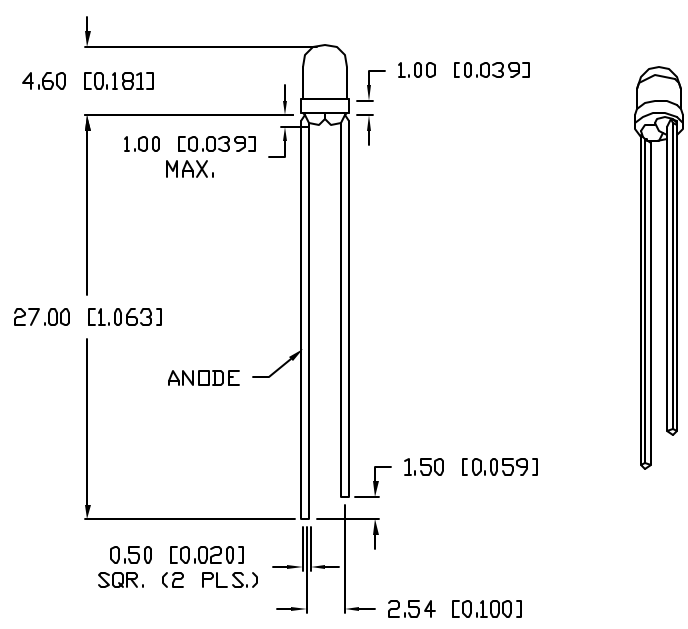
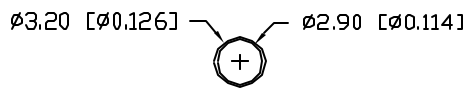
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta	Sample
SSL-LX3044AC	STANDARD	GaAsP	Amber	605	Clear	2.1	80	30	—
SSL-LX3044AD	STANDARD	GaAsP	Amber	605	Diffused	2.1	15	60	—
SSL-LX3044GC	STANDARD	GaP	Green	565	Clear	2.1	100	30	—
SSL-LX3044GD	STANDARD	GaP	Green	565	Diffused	2.1	40	60	—
SSL-LX3044HC	STANDARD	GaP	Red	700	Clear	2.0	25	30	—
SSL-LX3044HD	STANDARD	GaP	Red	700	Diffused	2.0	6	60	—
SSL-LX3044IC	STANDARD	GaAsP	Red	635	Clear	2.0	125	30	—
SSL-LX3044ID	STANDARD	GaAsP	Red	635	Diffused	2.0	30	60	—
SSL-LX3044OD	STANDARD	GaP	Orange	630	Diffused	2.0	30	60	—
SSL-LX3044PGC	STANDARD	GaP	Green	555	Clear	2.1	15	30	—

UNCONTROLLED DOCUMENT

PART NUMBER
SSL-LX3044ID

REV.
E



REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	REMOVED FLAT EDGE FROM FLANGE.	4.28.92
B	UPDATED SPECS.	11.15.94
C	UPDATED VIEW ANGLE.	1.20.95
D	UPDATED INTENSITY.	2.21.95
E	E.C.N. #10BRDR. & REDRAWN IN 3D.	4.11.01

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		30		mcad	$I_f=20\text{mA}$
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	-1.6	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY		3 SEC. MAX

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

*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} -0.00 MAX= ^{+0.00} -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV. E	PART NUMBER SSL-LX3044ID
T-3mm (T-1) 635nm RED LED, RED 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: BC	CHECKED BY:	APPROVED BY:	DATE: 5.2.90 PAGE: 1 OF 1 SCALE: N/A
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