



We Tame Photons to Work for You!



For:

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

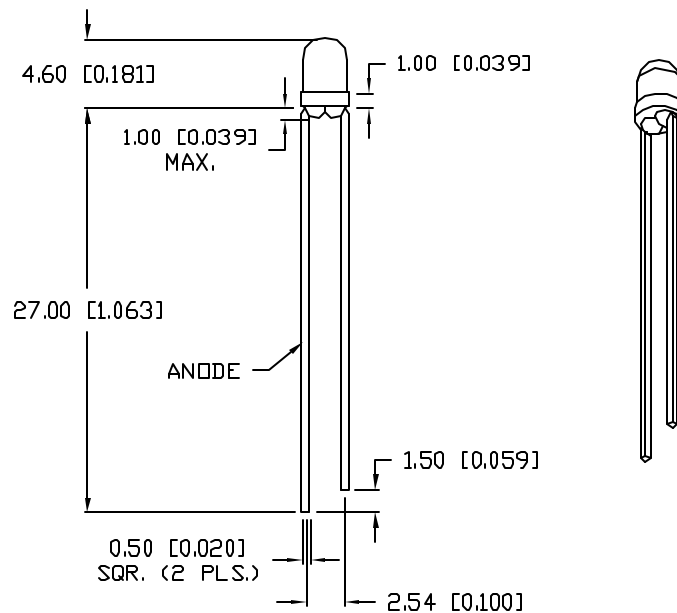
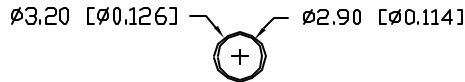
Applications / Uses

- ▶ 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		
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		—

SSL-LX3044PGD		STANDARD	GaP	Green	555	Diffused	2.1	20	60		—
SSL-LX3044SGC		STANDARD	GaP	Green	565	Clear	2.1	200	30		—
SSL-LX3044SGD		STANDARD	GaP	Green	565	Diffused	2.1	50	60		—
SSL-LX3044SIC		HIGH	AlInGaP	Red	636	Clear	2.0	1800	30		—
SSL-LX3044SID		HIGH	AlInGaP	Red	636	Diffused	2.0	100	60		—
SSL-LX3044SOC		HIGH	AlInGaP	Orange	610	Clear	2.0	1000	30		—
SSL-LX3044SOD		HIGH	AlInGaP	Orange	610	Diffused	2.0	100	60		—
SSL-LX3044SRC		STANDARD	GaAlAs	Red	660	Clear	1.8	500	30		—
SSL-LX3044SRC/B		STANDARD	GaAlAs	Red	660	Clear	1.7	360	30		—
SSL-LX3044SRD		STANDARD	GaAlAs	Red	660	Diffused	1.8	80	60		—
SSL-LX3044SUGC		HIGH	AlInGaP	Green	574	Clear	2.2	1000	30		—
SSL-LX3044SUGD		HIGH	AlInGaP	Green	574	Diffused	2.2	60	60		—
SSL-LX3044SYC		HIGH	AlInGaP	Yellow	590	Clear	2.0	1000	30		—
SSL-LX3044SYD		HIGH	AlInGaP	Yellow	590	Diffused	2.0	100	60		—
SSL-LX3044USBC		HIGH	InGaN	Blue	470	Clear	3.5	1000	30		—
SSL-LX3044USBD		HIGH	InGaN	Blue	470	Diffused	3.5	80	60		—
SSL-LX3044UWC		HIGH	InGaN	White	-	Clear	3.5	800	20		—
SSL-LX3044YC		STANDARD	GaAsP	Yellow	585	Clear	2.1	90	30		—
SSL-LX3044YD		STANDARD	GaAsP	Yellow	585	Diffused	2.1	40	60		—

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		470		nm	
FORWARD VOLTAGE		3.5	4.0	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY		80		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	BLUE				
EPOXY LENS FINISH:	BLUE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	98	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	100	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= ^{+0.00} _{-0.00} DECIMAL PRECISION MAX.= ^{+0.00} _{-0.00} DECIMAL PRECISION

REV.

PART NUMBER

SSL-LX3044USBD

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T-3mm (T-1) 470nm ULTRA SUPER BLUE LED,
BLUE 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:

BC

CHECKED BY:

APPROVED BY:

DATE: 4.10.01

PAGE: 1 OF 1

SCALE: N/A