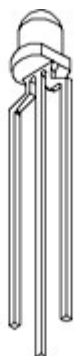




We Tame Photons to Work for You!



Products > LEDs > Thru-Hole > Round > 3mm > Electrical Features > Bi-Color



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

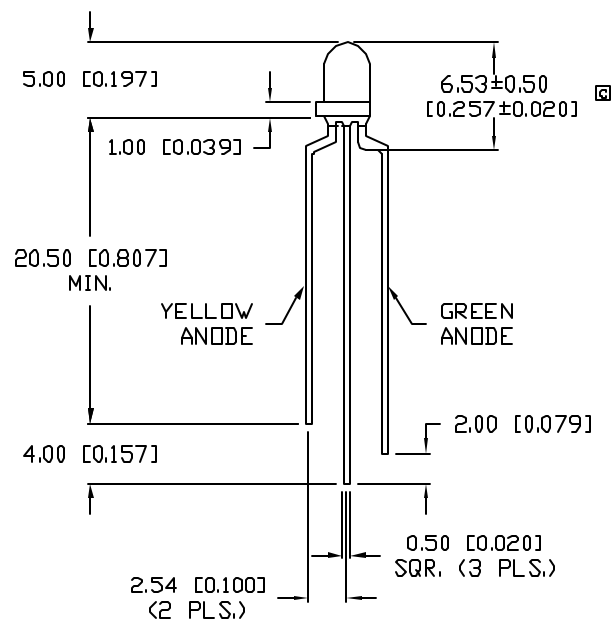
Applications / Uses

- ▶ 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-LX3059GYW		STANDARD	GaP/GaAsP	Green/Yellow	565	White Diffused	2.2/2.1	6	60		—
SSL-LX3059IGW		STANDARD	GaAsP/GaP	Red/Green	635	White Diffused	2.0/2.2	30	60		—
SSL-LX3059IYW		STANDARD	GaAsP/GaAsP	Red/Yellow	635	White Diffused	2.0/2.1	30	60		—
SSL-LX3059SRSGW		STANDARD	GaAlAs	Red/Green	660	White Diffused	1.7/2.2	180	60		—
SSL-LX3059YGW		STANDARD	GaAsP/GaP	Yellow/Green	585	White Diffused	2.1/2.2	30	60		—

UNCONTROLLED DOCUMENT

$\phi 4.00$ [0.157]
 
 $\phi 3.00$ [0.118]



PART NUMBER
SSL-LX3059GYW

REV.

C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	1.9.98
B	E.C.N. #10700.	1.9.01
C	E.C.N. #11412.	5.1.07

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		585 (GREEN)		nm	
		585 (YELLOW)		nm	
FORWARD VOLTAGE (C/Y)		2.2/2.0	2.6/2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		6		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	GREEN/YELLOW				
EPOXY LENS FINISH:	MILKY WHITE				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		150	mA
STEADY CURRENT	(C/Y)	25/30	mA
POWER DISSIPATION		105	mW
DERATE FROM 25°C		-1.6	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}_{-0.00} DECIMAL PRECISION MAX.=^{+0.00}_{-0.00} DECIMAL PRECISION

REV.

C

PART NUMBER

SSL-LX3059GYW

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.



T-3mm TRI-LEADED LED, BICOLOR GREEN/YELLOW,
COMMON CATHODE, MILKY WHITE DIFFUSED LENS.

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 3.15.96

PAGE: 1 OF 1

SCALE: N/A