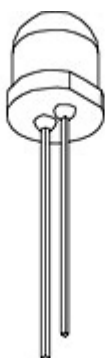




We Tame Photons to Work for You!



Products > LEDs > Thru-Hole > Round > 8mm



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

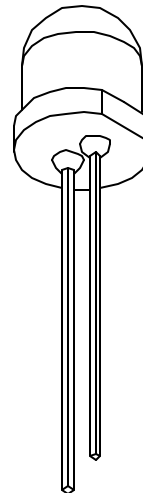
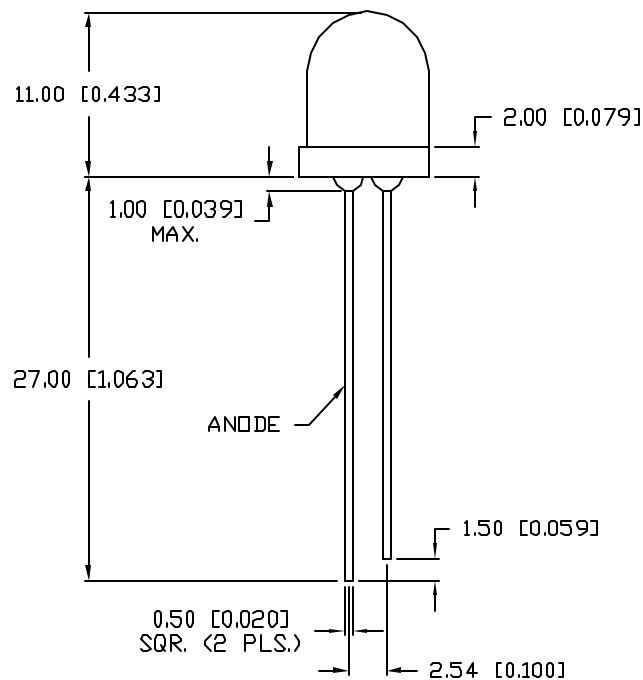
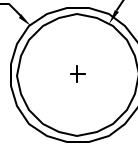
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

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-LX80113BID		STANDARD	GaAsP	Blinking Red	635	Diffused	3-15V	60	60		—
SSL-LX80113GD		STANDARD	GaP	Green	565	Diffused	2.1	15	60		—
SSL-LX80113HGW		STANDARD	GaP	Red/Green	700	White Diffused	2	3	60		—
SSL-LX80113ID		STANDARD	GaAsP	Red	635	Diffused	2.1	15	60		—
SSL-LX80113SGD		STANDARD	GaP	Green	565	Diffused	2.1	50	60		—
SSL-LX80113SID		HIGH	AlInGaP	Red	636	Diffused	2.0	350	60		—
SSL-LX80113SOD		HIGH	AlInGaP	Orange	610	Diffused	2.0	350	60		—
SSL-LX80113SUGD		HIGH	AlInGaP	Green	574	Diffused	2.2	200	60		—
SSL-LX80113SYD		HIGH	AlInGaP	Yellow	590	Diffused	2.0	200	60		—
SSL-LX80113USBD		HIGH	InGaN	Blue	470	Diffused	3.5	250	60		—

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PART NUMBER
SSL-LX80113SGDREV.
B

$\varnothing 9.00$ [0.354] $\varnothing 8.00$ [0.315]

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565		nm	
FORWARD VOLTAGE		2.2	2.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY		50		med	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	GREEN DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	25	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.=^{+DECIMAL PRECISION}-0.00 MAX.=^{+0.00}-DECIMAL PRECISION

REV.

B

PART NUMBER

SSL-LX80113SGD

T-8mm 565nm SUPER GREEN LED,
 GREEN DIFFUSED 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: 11.13.06

PAGE: 1 OF 1

SCALE: N/A