



We Tame Photons to Work for You!



Products > LEDs > Thru-Hole > Round > 10mm > Standard



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

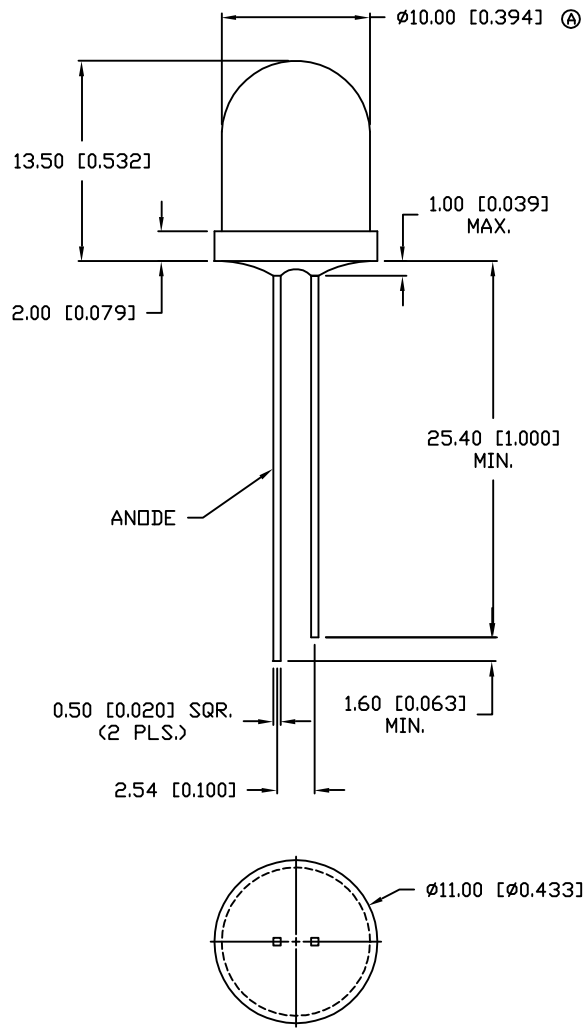
Applications / Uses

- ▶ 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-LX100133BID	STANDARD	GaAsP	Blinking Red	635	Diffused	3	12	80		—
SSL-LX100133GD	STANDARD	GaP	Green	565	Diffused	2.2	30	60		—
SSL-LX100133HGW	STANDARD	GaP	Red/Green	700	White Diffused	2	4	60		—
SSL-LX100133IC	STANDARD	GaAsP	Red	635	Clear	2.0	40	30		—
SSL-LX100133ID	STANDARD	GaAsP	Red	635	Diffused	2.0	40	60		—
SSL-LX100133SBC/A	STANDARD	SiC	Blue	430	Clear	3.5	150	30		—
SSL-LX100133SGC	STANDARD	GaP	Green	565	Clear	2.1	120	30		—
SSL-LX100133SGD	STANDARD	GaP	Green	565	Diffused	2.2	45	60		—
SSL-LX100133SIC	HIGH	AllnGaP	Red	636	Clear	2.0	3200	30		—
SSL-LX100133SID	HIGH	AllnGaP	Red	636	Diffused	2.0	550	60		—

DATE	REVISIONS	REV
3-10-98	E.C.N. #10BRDR. & #10421. & REDRAWN./	A

DRAWING NUMBER	REV
SSL-LX100133SGD	A



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565 (GREEN)		nm	
FORWARD VOLTAGE		2.2	2.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r = 100\mu\text{A}$
AXIAL INTENSITY		45		mcd	$I_f = 20\text{mA}$
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

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

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. (A)



CONFIDENTIAL INFORMATION
 THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INCORPORATED. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INCORPORATED, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

DATE: 4-26-95	DWN:	CHK'D:	APPD:
SCALE: N/A			

T-3 1/8mm (T-10) LED, SUPER GREEN,
 GREEN DIFFUSED LENS.

PAGE 1 OF 1	DRAWING NUMBER SSL-LX100133SGD	REV A
-------------	-----------------------------------	----------

UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010''$)

DU