

Products > LEDs > Surface Mount > Right Angle > 3mm x 2mm

Features / Options

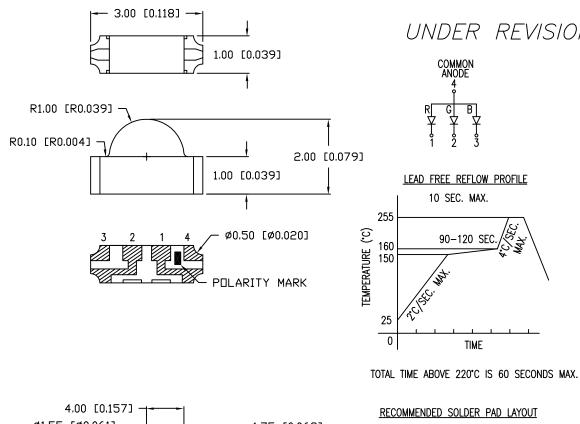
- State-of-the-Art, High Brightness Chip Technology
- Choice of Colors and Lens Finishes
- Lead Frame / Lens Casting Reliability
- Easy-to-Solder Leads, Tin Finish
- Available Bulk or on Tape and Reel
- Lead Trimming and Forming Available
 Custom Shapes, Easily Tooled, Low
- Minimum

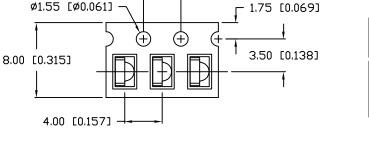
Applications / Uses

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

Part Number:	SPEC	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta	Sample Cart	Stock Check
SML-LXR851DRC-TR		STANDARD	GaAIAs	Red	660	Clear	2.0	25	120		_
SML-LXR851GC-TR		STANDARD	GaP	Green	565	Clear	2.2	11	160		_
SML-LXR851IC-TR		STANDARD	GaAsP	Red	635	Clear	2.0	8	160		_
SML-LXR851IYC-TR		STANDARD	GaAsP	Red/Yellow	635	Clear	2.0/2.1	10	160		
SML-LXR851SGSIC-TR		STANDARD	GaP	Green/Red	565	Clear	2.2/2.0	20	120		_
SML-LXR851SIC-TR		HIGH	AlInGaP	Red	636	Clear	2.0	70	160		_
SML-LXR851SISGC-TR		HIGH	AlInGaP	Red/Green	636	Clear	2.0/2.1	50	120		_
SML-LXR851SISUGCTR		HIGH	AlInGaP	Red/Green	636	Clear	2.0/2.1	50	120		_
SML-LXR851SIUPGUBC		HIGH	AlInGaP/InGaN	RGB	636/525/470	Clear	2/3.5/3.5	90/180/70	120		_
SML-LXR851SOC-TR		HIGH	AlInGaP	Orange	610	Clear	2.0	75	160		—

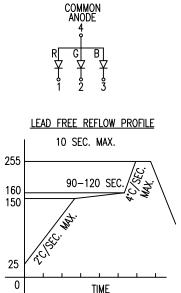






TAPE FEED DIRECTION -

UNDER REVISION



3.20 [0.126] 2.00 [0.079]

SC:0.10 PART NUMBER REV. SML-LXR851SIUPGUBC А REV. E.C.N. NUMBER AND REVISION COMMENTS DATE E.C.N. #11148. Α 8.28.07

ELECTRO-OPTICAL CHARACTE	RISTICS TA	=25°C	f=2	OmA	
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH	6	36 (RED))	nm	
	52	5 (GREE	N)	nm	
	4	70 (RED)	nm	
FORWARD VOLTAGE (R)		2.0	2.6	٧f	
(G)		3.5	4.0	٧f	
(B)		3.5	4.0	٧f	
REVERSE VOLTAGE	5.0			٧r	lr=100µA
AXIAL INTENSITY (R/G/B)	90	0/180/7	' 0	mcd	lf=20mA
VIEWING ANGLE		120		2x theta	
EMITTED COLOR: PER	POSITION IN	NOTES			
EPOXY LENS FINISH: WATE	r clear				

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	60/100/100	mA
STEADY CURRENT		25	mA
POWER DISSIPATION		105	mW
DERATE FROM 25°C		-1.2	mW/°C
OPERATING, STORAGE TEMP.		- 40 TO + 85	•Ć

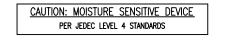
* t<10µS

1.00 [0.039]

NOTES:

UNCONTROF

1. THE COMMON ANODE PIN IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



DÜC

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*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 MAX = +0.00 -DECIMAL PRECISION MAX = +0.00

0.30 [0.012]

- 1.30 [0.051]

REV. PART NUMBER		PART NUMBER	<u>CONFIDENTIAL INFORMATION</u> THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF	I ITAE	EV			
	A	SML-LXR851SIUPGUBC	LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX	We Tame Photons To Wor	Y For You			
	1.0mm x 3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, FULL COLOR RGB LED,		RELIABILITY NOTE OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT	DRAWN BY:	CHECKED BY:	APPROVED BY:		8.6.03
	COMMON ANODE, WATER CLEAR LENS, 2K PER REEL.		SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.	СТ			PAGE: SCALE:	1 OF 1 N/A