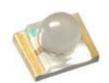
## Products > LEDs > Surface Mount > 1206 Package > Flat Solder Terminals > Dome Lens



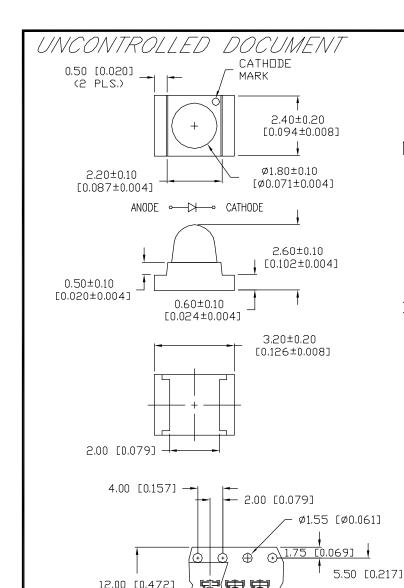
# Features / Options

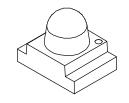
- ► State-of-the-Art, High Brightness Chip Technology
- ► Choice of Colors and Lens Finishes
- ► Lead Frame / Lens Casting Reliability
- ► Easy-to-Solder Leads, Tin Finish
- ► Available Bulk or on Tape and Reel
- ► Lead Trimming and Forming Available
- ► Custom Shapes, Easily Tooled, Low Minimum

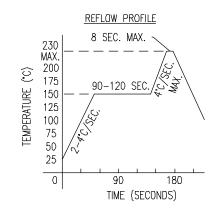
# Applications / Uses

- ► 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	
SML-LXL1209SIC-TR	HIGH	AlInGaP	Red	636	Clear	2.0	600	50	_
SML-LXL1209SIC/G-TR	HIGH	AlInGaP	Red	636	Clear	2.0	2500	30	_
SML-LXL1209SOC-TR	HIGH	AlInGaP	Orange	610	Clear	2.45	1500	50	_
SML-LXL1209SRC-TR	STANDARD	GaAlAs	Red	660	Clear	1.85	480	50	_
SML-LXL1209SUGC-TR	HIGH	AlInGaP	Green	574	Clear	2.2	171	30	_
SML-LXL1209SYC-TR	HIGH	AlInGaP	Yellow	590	Clear	2.0	400	50	_
SML-LXL1209UPGC-TR	HIGH	InGaN	Green	525	Clear	3.5	1000	30	_
SML-LXL1209USBC-TR	HIGH	InGaN	Blue	470	Clear	3.5	250	50	_







#### ELECTRO-OPTICAL CHARACTERISTICS TA=25°C $I_f = 20 \text{mA}$ PARAMETER TYP MAX UNITS TEST COND 525 PEAK WAVELENGTH nm FORWARD VOLTAGE 3.5 4.3 ٧f REVERSE VOLTAGE $V_{r}$ 5.0 Ir=100µA AXIAL INTENSITY 1000 mcd $I_f = 20 \text{mA}$ VIEWING ANGLE 30 2x theta EMITTED COLOR: GREEN EPOXY LENS FINISH: WATER CLEAR LIMITS OF SAFE OPERATION AT 25°C

PART NUMBER

SML-LXL1209UPGC-TR

E.C.N. NUMBER AND REVISION COMMENTS

E.C.N. #10967.

REV.

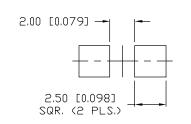
DATE

3.14.03

#### PARAMETER MAX UNITS PEAK FORWARD CURRENT\* 100 mΑ STEADY CURRENT 30 mΑ POWER DISSIPATION 130 mW mW/°C DERATE FROM 25'C -1.2°C OPERATING TEMP. -40 TO +85·C STORAGE TEMP. -40 T0 + 85

### \* t<10µS

### RECOMMENDED SOLDER PAD LAYOUT



### NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

TAPE FEED DIRECTION — 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 MAX.= +0.00 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.003). MIN=+DECIMAL PRECISION MAX.= +0.00 (±0.002), LEAD SIZE=±0.05 (±0.003), MIN=+DECIMAL PRECISION MAX.= +0.00 (±0.002), LEAD SIZE=±0.05 (±0.002), LE

A SML-LXL1209UPGC-TR

TOP TAPE

3.2mm x 2.4mm SURFACE MOUNT LED, 525nm ULTRA PURE GREEN LED, WATER CLEAR LENS, TAPE AND REEL. 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: CHECKED BY:

CHECKED BY: APPROVED BY:

OVED BY: DATE: 7.1.02 PAGE: 1 OF 1

SCALE: N/A

G