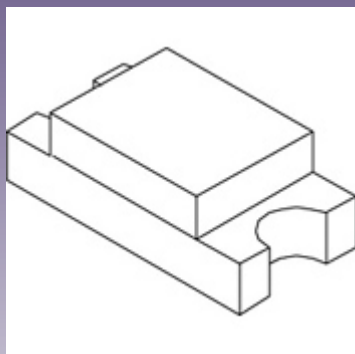




We Tame Photons to Work for You!



Products > LEDs > Surface Mount > 1206 Package > Half Moon Solder Terminals > Standard



Features / Options

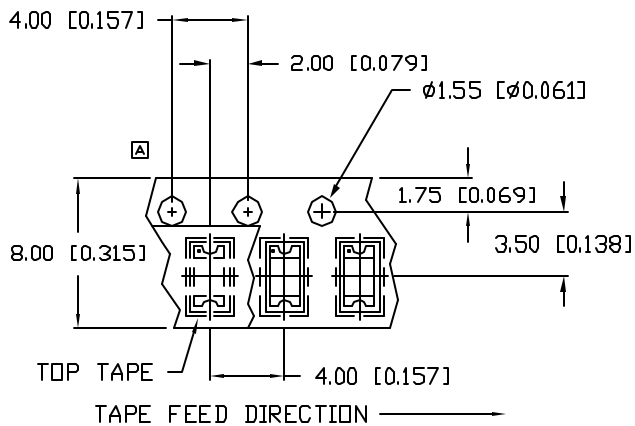
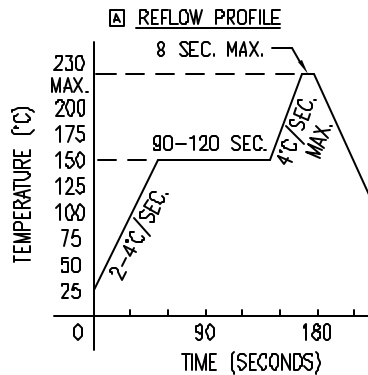
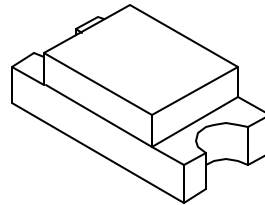
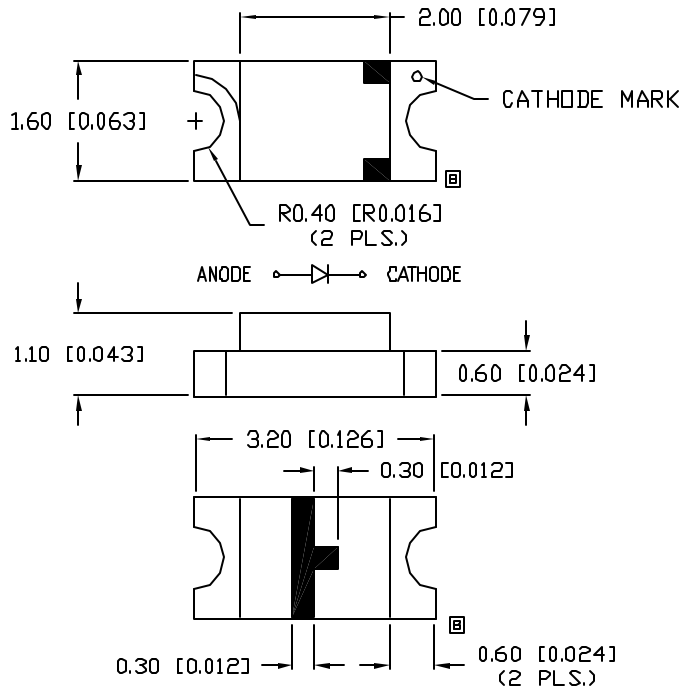
- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Lead Frame / Lens Casting Reliability
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ Available Bulk or on Tape and Reel
- ▶ Lead Trimming and Forming Available
- ▶ Custom Shapes, Easily Tooled, Low Minimum

Applications / Uses

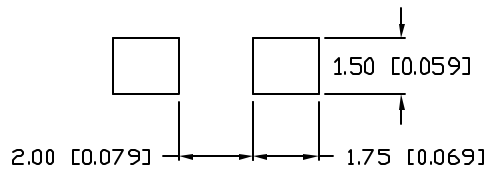
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SML-LX1206AC-TR	HIGH	AlInGaP	Amber	610	Clear	2.0	6	160		—
SML-LX1206AW-TR	HIGH	AlInGaP	Amber	610	White Diffused	2.0	6	160		—
SML-LX1206GC-TR	STANDARD	GaP	Green	565	Clear	2.1	10	160		—
SML-LX1206GC-TR1	STANDARD	GaP	Green	565	Clear	2.2	10	160		—
SML-LX1206GW-TR	STANDARD	GaP	Green	565	White Diffused	2.2	10	160		—
SML-LX1206IC-TR	STANDARD	GaAsP	Red	635	Clear	2	6	160		—
SML-LX1206IW-TR	STANDARD	GaAsP	Red	635	White Diffused	2.0	6	160		—
SML-LX1206PGC-TR	STANDARD	GaP	Green	555	Clear	2.1	6	160		—
SML-LX1206SGC-TR	STANDARD	GaP	Green	565	Clear	2.2	10	160		—
SML-LX1206SGW-TR	STANDARD	GaP	Green	565	White Diffused	2.2	10	160		—

UNCONTROLLED DOCUMENT



RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER
SML-LX1206GW-TR

REV.
C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10644. & REDRAWN IN 3D.	7.18.00
B	E.C.N. #10814.	12.3.01
C	E.C.N. #10967.	3.14.03

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	$I_f=100\mu\text{A}$
AXIAL INTENSITY		10		mcad	$I_f=20\text{mA}$
VIEWING ANGLE		160		2x theta	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	MILKY WHITE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	65	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-25 TO +85	°C
STORAGE TEMP.	-30 TO +85	°C

NOTES:

- THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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. C PART NUMBER SML-LX1206GW-TR

3.2mm x 1.6mm PCB SURFACE MOUNT LED,
565nm GREEN LED,
MILKY WHITE DIFFUSED LENS, TAPE AND REEL.

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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: BC CHECKED BY: APPROVED BY: DATE: 6.30.98
PAGE: 1 OF 1
SCALE: N/A