



We Tame Photons to Work for You!



Products > LEDs > Surface Mount > 0805 Package > Half Moon Solder Terminals

Features / Options

Applications / Uses



- ▶ 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

- ▶ 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-LX0805DRC-TR	HIGH	AllnGaP	Red	660	Clear	2.0	25	140		—
SML-LX0805GC-TR	STANDARD	GaP	Green	565	Clear	2.1	10	140		—
SML-LX0805IC-TR	STANDARD	GaAsP	Red	635	Clear	2	9	140		—
SML-LX0805SIC-TR	HIGH	AllnGaP	Red	636	Clear	2.0	60	140		—
SML-LX0805SOC-TR	HIGH	AllnGaP	Orange	610	Clear	2.0	60	140		—
SML-LX0805SRC-TR	STANDARD	GaAlAs	Red	660	Clear	1.85	25	140		—
SML-LX0805SUGC-TR	HIGH	AllnGaP	Green	574	Clear	2.2	45	140		—
SML-LX0805SYC-TR	HIGH	AllnGaP	Yellow	590	Clear	2.0	60	140		—
SML-LX0805UPGC-TR	HIGH	InGaN	Green	525	Clear	3.5	45	140		—
SML-LX0805USBC-TR	HIGH	InGaN	Blue	470	Clear	3.5	25	140		—

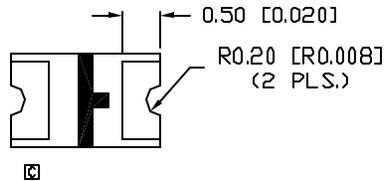
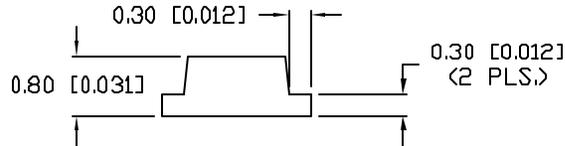
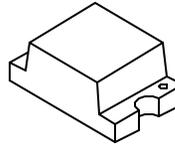
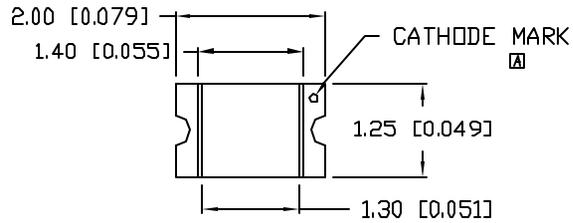
SML-LX0805UWC-TR		HIGH	InGaN	White	-	Clear	3.5	150	140		—
SML-LX0805YC-TR		STANDARD	GaAsP	Yellow	585	Clear	2.1	9	140		—
SML-LXT0805AW-TR		STANDARD	GaAlAs	Amber	605	White Diffused	2.0	11	140		—
SML-LXT0805GW-TR		STANDARD	GaP	Green	565	White Diffused	2.2	11	140		—
SML-LXT0805IW-TR		STANDARD	GaAlAs	Red	635	White Diffused	2.0	11	140		—
SML-LXT0805SBW-TR		STANDARD	SiC	Blue	430	White Diffused	4.0	11	140		—
SML-LXT0805SRW-TR		STANDARD	GaAlAs	Red	660	White Diffused	1.8	21	140		—
SML-LXT0805SUGW-TR		HIGH	AlInGaP	Green	574	White Diffused	2.2	40	140		—
SML-LXT0805SYW-TR		HIGH	AlInGaP	Yellow	590	White Diffused	2.1	60	140		—
SML-LXT0805UPGW-TR		HIGH	InGaN	Green	525	White Diffused	3.5	130	140		—
SML-LXT0805YW-TR		STANDARD	GaAlAs	Yellow	585	White Diffused	2.1	10	140		—



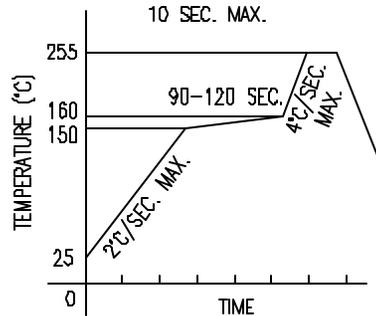
UNCONTROLLED DOCUMENT

PART NUMBER
SML-LXT0805GW-TR

REV.
F

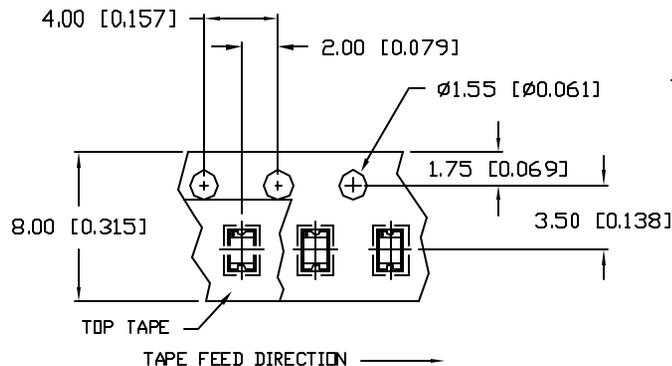
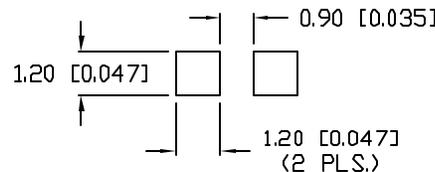


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



ELECTRO-OPTICAL CHARACTERISTICS TA=25°C If=20mA

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565		nm	
FORWARD VOLTAGE		2.0	2.8	Vf	
REVERSE VOLTAGE	5.0			Vr	If=100µA
AXIAL INTENSITY	6.3	11		mcad	If=20mA
VIEWING ANGLE		140		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	30	mA
POWER DISSIPATION	50	mW
DERATE FROM 25°C	- 1.2	mW/°C
OPERATING TEMP.	- 25 TO +80	°C
STORAGE TEMP.	- 30 TO +85	°C

* t<10µs

NOTES:

- 4K PER REEL
- CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 2 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. F PART NUMBER SML-LXT0805GW-TR

2.0mm x 1.25mm THIN PCB SURFACE MOUNT,
565nm GREEN LED,
MILKY WHITE DIFFUSED LENS, TAPE AND REEL.

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., 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.

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: 2.17.99
PAGE: 1 OF 1
SCALE: N/A