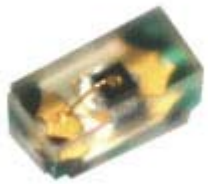


Features / Options

- 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

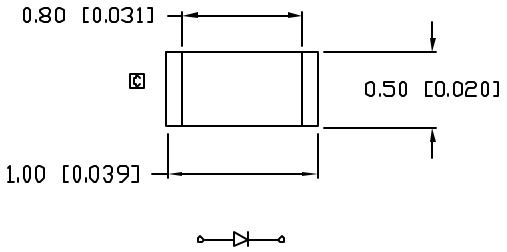
- Board or Panel Indication or Illumination
- Annunciator and Control Panels
- Telecom Switches and Central Station Equipment
- Large Panel Indicators

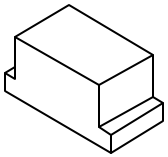
Part Number:	SPEC	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SML-LX0402DRC-TR		STANDARD	GaAlAs	Red	660	Clear	2.0	25	120		
SML-LX0402GC-TR		STANDARD	GaP	Green	565	Clear	2.2	10	120		
SML-LX0402SIC-TR		HIGH	AlInGaP	Red	636	Clear	2.0	140	120		
SML-LX0402SOC-TR		HIGH	AlInGaP	Orange	610	Clear	2.0	120	120		
SML-LX0402SUGC-TR		HIGH	AlInGaP	Green	574	Clear	2.2	45	120		
SML-LX0402SYC-TR		HIGH	AlInGaP	Yellow	590	Clear	2.0	60	120		
SML-LX0402UPGC-TR		HIGH	InGaN	Green	525	Clear	3.5	110	120		
SML-LX0402USBC-TR		HIGH	InGaN	Blue	470	Clear	3.5	20	120		
SML-LX0402YC-TR		STANDARD	GaAsP	Yellow	585	Clear	2.0	10	120		

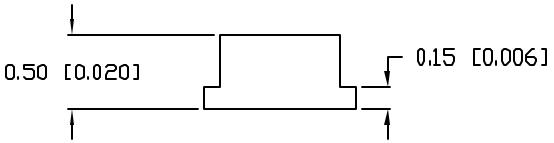
UNCONTROLLED DOCUMENT

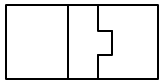
PART NUMBER	REV.
SML-LX0402SYC-TR	D

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10873.	6.4.02
B	E.C.N. #10967.	3.14.03
C	E.C.N. #10983.	4.18.03
D	E.C.N. #11148.	12.03.04

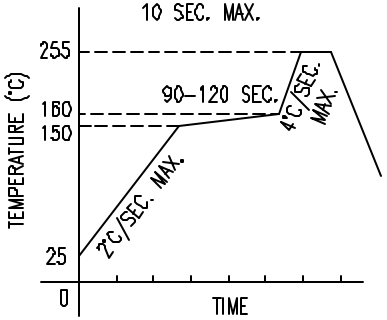








D LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

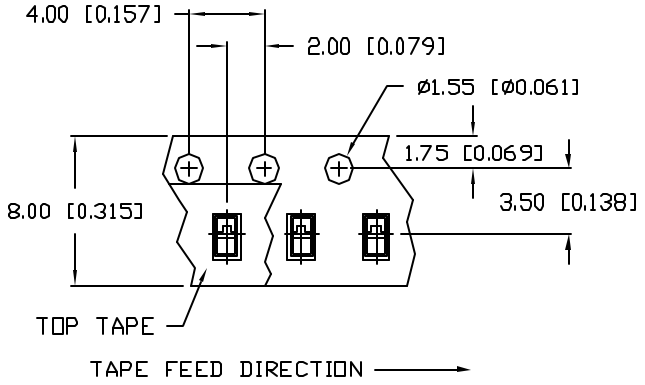
ELECTRO-OPTICAL CHARACTERISTICS T_A=25°C I_f= 20mA

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		590		nm	
FORWARD VOLTAGE		2.0	2.5	Vf	
REVERSE VOLTAGE	5.0			V_r	I_r=100µA
AXIAL INTENSITY		60		mcd	I_f= 20mA
A VIEWING ANGLE		120		2x theta	
EMITTED COLOR:	SUPER YELLOW				
EPOXY LENS FINISH:	WATER CLEAR				

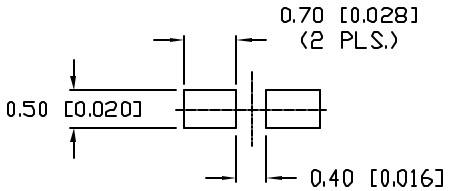
LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	160	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	125	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

* t<10µS



RECOMMENDED SOLDER PAD LAYOUT



NOTES:

1. PARTS PACKAGED IN CONDUCTIVE COVER AND CARRIER TAPE.
2. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

D Pb

B CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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 -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.	PART NUMBER
D	SML-LX0402SYC-TR

1.0mm x 0.5mm SURFACE MOUNT LED,
590nm SUPER YELLOW LED,
WATER CLEAR LENS, TAPE AND REEL.

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:	APPROVED BY:	DATE: 9.11.01
CT			PAGE: 1 OF 1
			SCALE: N/A