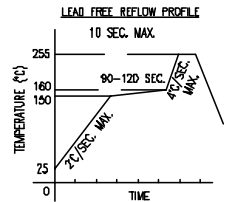
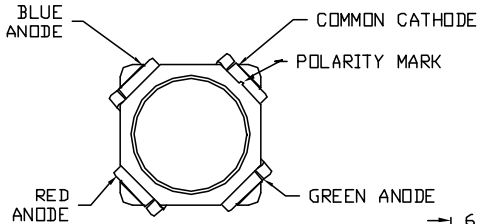


UNCONTROLLED DOCUMENT

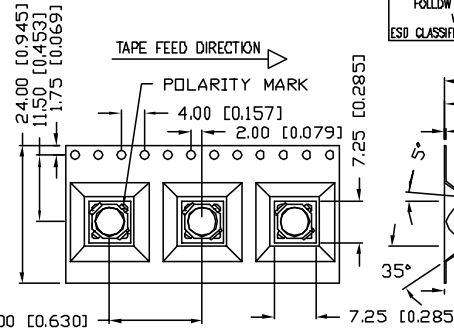
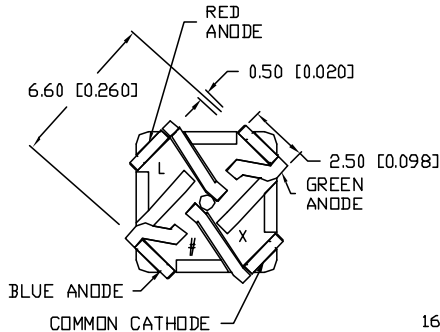
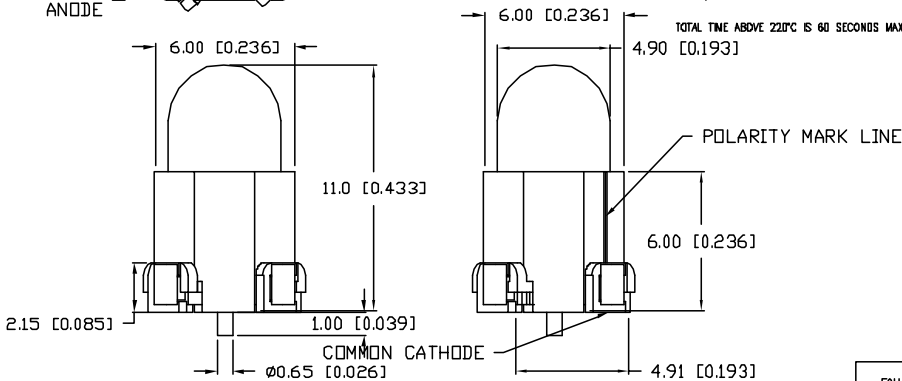
PART NUMBER

REV.

SML-H1505SIUGUBCTR



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH	635 (RED)			nm	
	465 (BLUE)			nm	
	520 (GREEN)			nm	
FORWARD VOLTAGE (R)	2.2	2.7		V _f	
(B)	3.4	4.0		V _f	
(G)	3.4	4.0		V _f	
REVERSE VOLTAGE	5.0			V _r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (R/B/G)	1100/600/2200			med	$I_f=20\text{mA}$
VIEWING ANGLE	70			2x theta	
EMITTED COLOR	RED/BLUE/GREEN				
EPOXY LENS FINISH	WATER CLEAR				

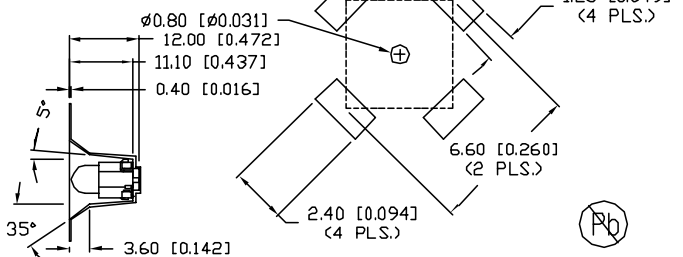
LIMITS OF SAFE OPERATION AT 25°C PER DIE.

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	R/B/G	100	mA
STEADY CURRENT	R/B/G	30/20/20	mA
POWER DISSIPATION	R/B/G	95/80/80	mW
DERATE FROM 25°C		-1.2	mW/°C
OPERATING TEMP.		-30 TO +80	°C
STORAGE TEMP.		-40 TO +100	°C

* $t < 10\mu\text{s}$

RECOMMENDED PAD LAYOUT

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.
ESD CLASSIFICATION: CLASS II BASED ON MIL-STD 883C



*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).

UNCONTROLLED DOCUMENT

REV.

PART NUMBER

SML-H1505SIUGUBCTR

5mm SURFACE MOUNT DOMED LED,
RED/BLUE/GREEN, WATER CLEAR LENS.

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.



290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY:

CHECKED BY:

APPROVED BY:

DATE: 03.31.08

JN

PAGE: 1 OF 1
SCALE: N/A