

UNCONTROLLED DOCUMENT

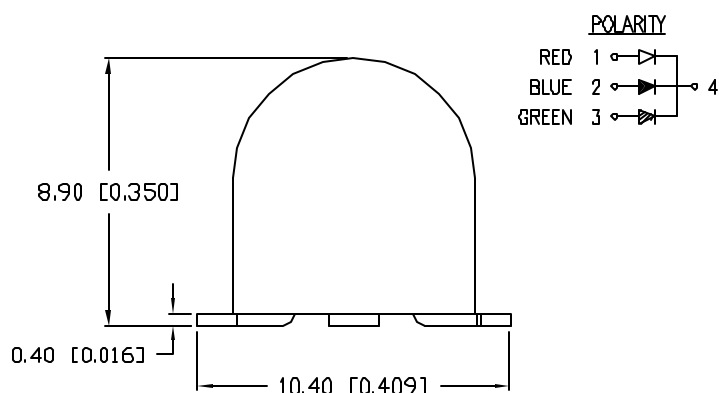
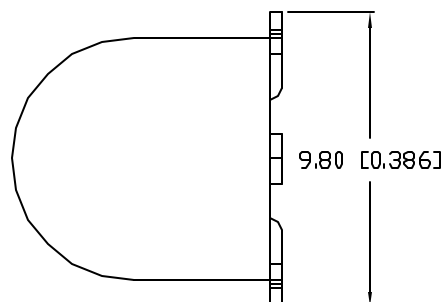
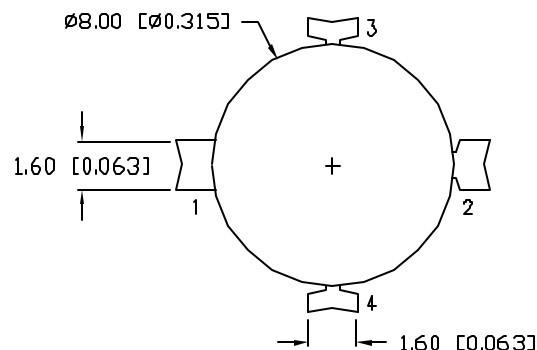
SC:0.25

PART NUMBER

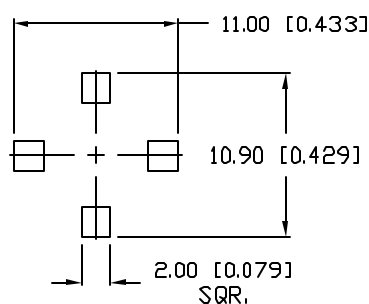
REV.

SML-LXL809SIUPGUSBC

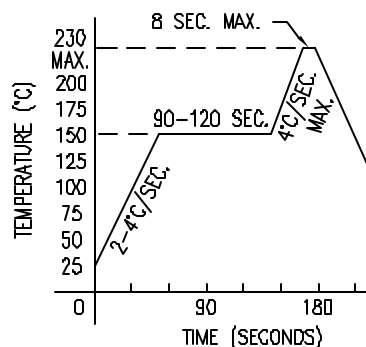
PRELIMINARY IN P/N DIR



RECOMMENDED SOLDER PAD LAYOUT



REFLOW PROFILE

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

PARAMETER	RED	GREEN	BLUE	UNITS	TEST COND
PEAK WAVELENGTH	636	525	470	nm	
FORWARD VOLTAGE (TYP.)	2.0	3.5	3.5	V_f	
FORWARD VOLTAGE (MAX.)	2.8	4.0	4.0	V_f	
REVERSE VOLTAGE	5.0	5.0	5.0	V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY	900	800	900	mcd	$I_f=20\text{mA}$
VIEWING ANGLE	30	30	30	2x theta	
LED POSITION:	1	2	3		
EPOXY LENS FINISH: WATER CLEAR					

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	150/150/200	mA
STEADY CURRENT	(R/G/B)	30/25/30	mA
POWER DISSIPATION		105	mW
DERATE FROM 25°C		-1.2	mW/°C
OPERATING, STORAGE TEMP.		-40 TO +85	°C

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

REPLACES PART #: SML-LXL809SISPGUSBC

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*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.

PART NUMBER

SML-LXL809SIUPGUSBC

T-8mm SURFACE MOUNT DOMED LED, 4 LEADED,
FULL COLOR RGB, WATER CLEAR LENS.

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.



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PAGE: 1 OF 1

SCALE: N/A