

DATE	REVISIONS	REV
6-25-96	E.C.N. #10195./	A
3-26-98	E.C.N. #10BRDR. & REDRAWN./	B

DRAWING NUMBER  
SSL-LX5099IGBBW/A

REV  
B

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		835 (RED) 585 (GREEN) 430 (BLUE)		nm	
FORWARD VOLTAGE (R)		2.0	2.5	$V_f$	
(G)		2.2	2.6	$V_f$	
(B)		4.5	5.0	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r = 100\mu\text{A}$
AXIAL INTENSITY (R/G/B)		55/45/8		mcd	$I_f = 20\text{mA}$
VIEWING ANGLE		30		2x theta	
EMITTED COLOR:	RED/GREEN/BLUE (MULTI-COLOR)				
EPOXY LENS FINISH:	MILKY WHITE DIFFUSED				

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$

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 $25^\circ\text{C}$	(R/G/B)	-1.2/-1.2/-2.0	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.		-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.		+260	$^\circ\text{C}$
2.0mm FROM BODY			3 SEC. MAX

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

#### 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.

B

**LUMEX**  
INCORPORATED

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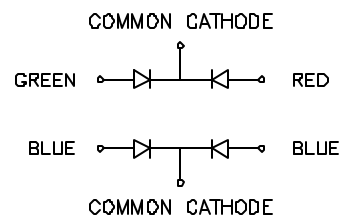
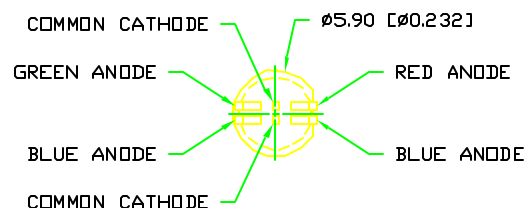
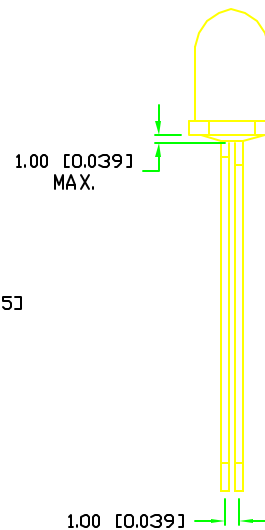
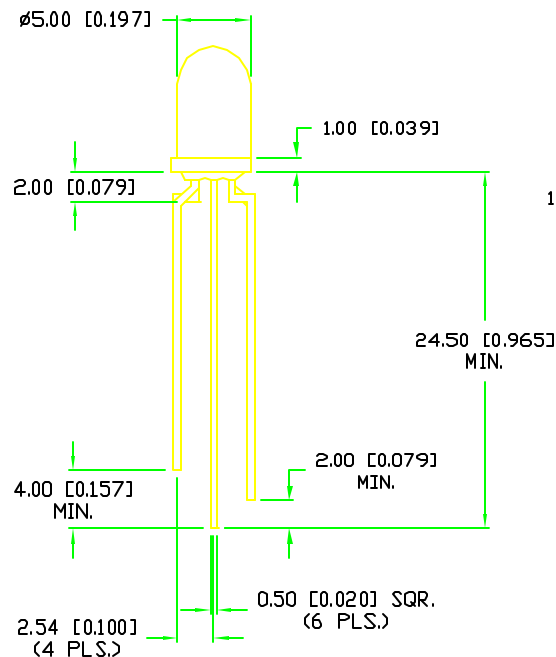
DATE: 5-28-96	DWN:	CHK'D:	APPD:
SCALE: N/A			

T-5mm (T-1 3/4) LED, 6 LEAD, MULTI-COLOR RGB,  
MILKY WHITE DIFFUSED LENS, COMMON CATHODE.

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UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010''$ )

DU

# Mouser Electronics

Authorized Distributor

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