

DATE	REVISIONS	REV
6-25-96	E.C.N. #10195./	A
12-10-96	E.C.N. #10282./	B
3-26-98	E.C.N. #10BRDR. & REDRAWN./	C

DRAWING NUMBER	REV
SSL-LX5099IGBBC/A	C

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) 565 (GREEN) 430 (BLUE)		nm	
FORWARD VOLTAGE {R} {G} {B}		2.0 2.2 4.5	2.5 2.6 5.0	V_f V_f V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r = 100\mu\text{A}$
AXIAL INTENSITY (R/G/B)		140/70/25		mcd	$I_f = 20\text{mA}$
VIEWING ANGLE		15		2θ	
EMITTED COLOR:		RED/GREEN/BLUE (MULTI-COLOR)			
EPOXY LENS FINISH:		WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°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°C	(R/G/B)	-1.2/-1.2/-2.0	$\text{mW}/^\circ\text{C}$
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.

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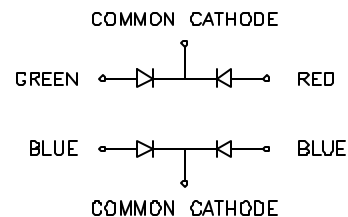
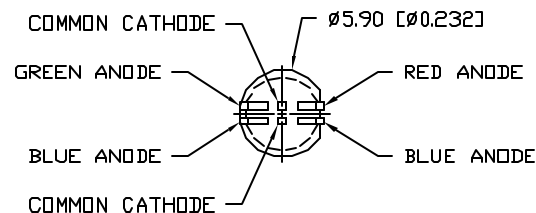
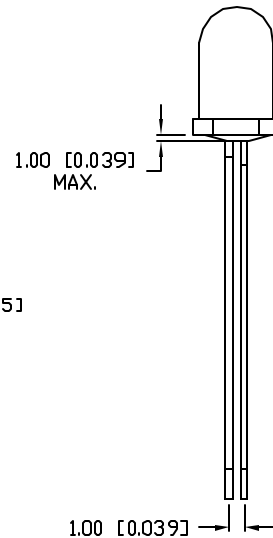
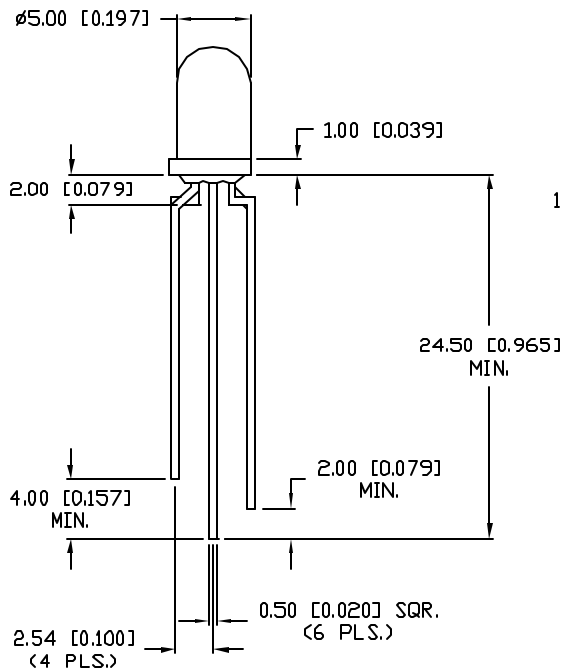
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DATE: 5-28-96	DWN:	CHK'D:	APPD:
SCALE: N/A			

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

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

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