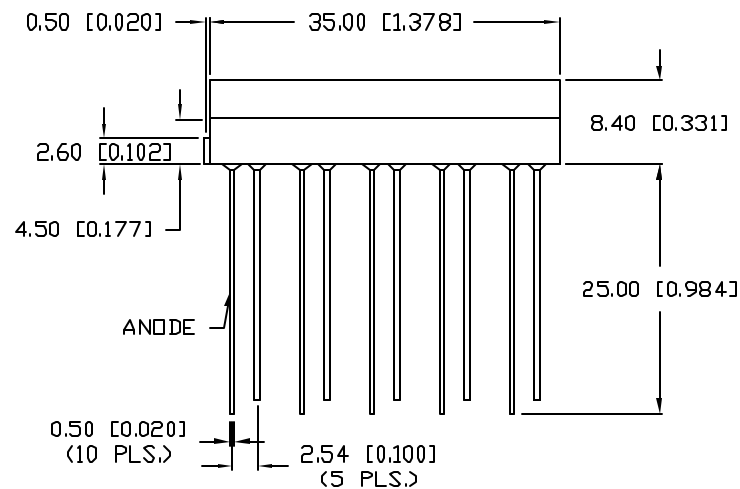
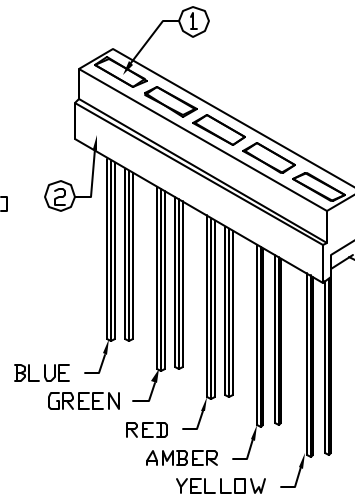
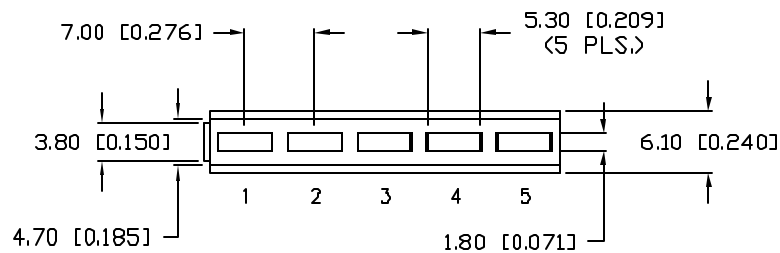
ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	BLUE	GREEN	RED	AMBER	YELLOW	UNITS	TEST COND
PEAK WAVELENGTH	470	565	635	610	585	nm	
FORWARD VOLTAGE (TYP.)	4.5	2.2	2.0	2.0	2.1	V_f	
FORWARD VOLTAGE (MAX.)	5.5	2.6	2.5	2.5	2.5	V_f	
REVERSE VOLTAGE	5.0	5.0	5.0	5.0	5.0	V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY	50	10	12	10	10	mcd	$I_f=20\text{mA}$
VIEWING ANGLE	110	110	110	110	110	2x theta	
LED POSITION:	1	2	3	4	5		
EPOXY LENS FINISH:	DIFFUSED SAME AS EMITTED COLOR						

LIMITS OF SAFE OPERATION AT 25°C PER LED

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		150	mA
STEADY CURRENT	(B/G/R/A/Y)	30/25/30/30/30	mA
POWER DISSIPATION		105	mW
DERATE FROM 25°C		-1.2	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

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

NOTES:

- 1.SSL-LX2583USBD, LED.
 SSL-LX2583GD, LED.
 SSL-LX2583ID, LED.
 SSL-LX2583AD, LED.
 SSL-LX2583YD, LED.

2. SSH-LXH525, HOLDER.

3. BACKFILL BOTTOM OF HOLDER WITH U.V. GLUE TO SECURE LEDS.

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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

SSA-LXB525USBGIAYD

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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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1.8mm x 5.3mm 5 UNIT LED ARRAY,
 POS.1: BLUE POS.2: GREEN POS.3: RED POS.4: AMBER,
 POS.5: YELLOW, COLOR DIFFUSED LENS.

DRAWN BY:

GB

CHECKED BY:

APPROVED BY:

DATE: 5.16.02

PAGE: 1 OF 1

SCALE: N/A