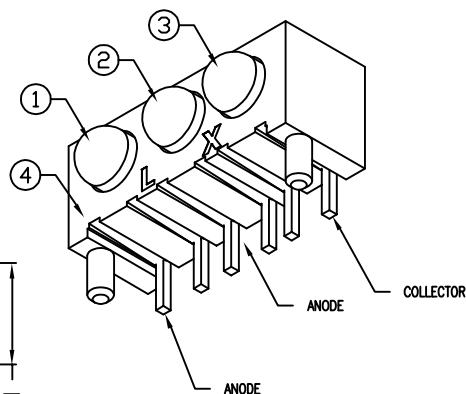
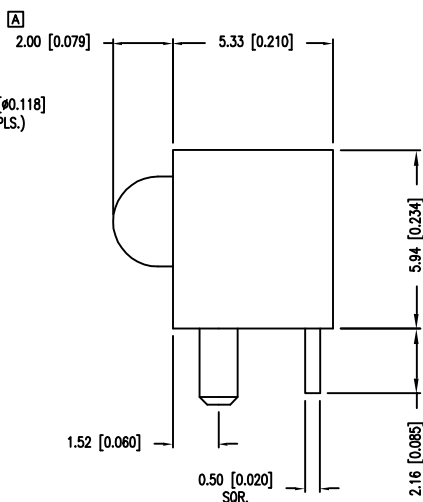




ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=20\text{mA}$					
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565		nm	
FORWARD VOLTAGE		2.2	2.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		30		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2θ theta	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	GREEN DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C		PER DIE
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	105	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

B 1. SSL-LX305F6GD, GREEN LED.
2. OED-EL305F4C50-HT, INFRARED EMITTER.
3. OED-ST305F4B50, INFRARED DETECTOR.
4. SSH-LXH335, BLACK PPS HOLDER, 94V-0.
5. ELECTRICAL SPECS FOR INFRARED DEVICES ARE ON PAGE 2.

*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} UNCONTROLLED DOCUMENT

LUMEX®
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3mm, RIGHT ANGLE PCB INDICATOR, 565nm GREEN, 940nm IR, AND PHOTOTRANSISTOR.

****THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.****

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DATE:	11.29.06	DRAWN BY:	JC
PAGE:	1 OF 1	CHKD BY:	KF
SCALE:	N/A	APRVD BY:	KF
UNIT:	mm [INCH]	(Pb)	

PART NUMBER	SSF-LXH335GD-STEL1	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
08.16.07	E.C.N. #11416.		A
08.07.10	E.C.N. #11654.		B

INFRARED EMITTER

ELECTRO-OPTICAL CHARACTERISTICS T _A =25°C I _f =20mA				
PARAMETER	MIN	TYP	MAX	UNITS TEST COND
PEAK WAVELENGTH		940		nm
SPECTRAL BANDWIDTH		50		nm
FORWARD VOLTAGE		1.2	1.6	V _f
REVERSE VOLTAGE	5.0			V _r I _r =10µA
RADIANT INTENSITY	7	15		mW/SR I _f =20mA
HALF ANGLE		±25		degrees
EPOXY LENS FINISH:	WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°C		
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1.2	A
STEADY CURRENT	50	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY		3 SEC. MAX
* tp<100µs, tp/T=0.01		

PHOTOTRANSISTOR

ELECTRO-OPTICAL CHARACTERISTICS T _A =25°C				
PARAMETER	MIN	TYP	MAX	UNITS TEST COND
SPECTRAL SENSITIVITY		940		nm
C/E BREAKDOWN VOLTAGE	30			V I _c =100µA E _e = 0.0 mW/cm ²
E/C BREAKDOWN VOLTAGE	5.0			V I _c =100µA E _e = 0.0 mW/cm ²
C/E SATURATION VOLTAGE			0.8	V I _c = 2 mA E _e = 20 mW/cm ²
COLLECTOR DARK CURRENT			100	nA V _{ce} =10V E _e = 0.0mW/cm ²
COLLECTOR ON CURRENT	0.3	1.0		mA V _{ce} = 5 V E _e = 1.0mW/cm ²
SWITCHING TIME		3		µS I _c =1mA V _{ce} = 5 V,RI=1000Ω
EPOXY FINISH:	BLUE TRANSPARENT			

LIMITS OF SAFE OPERATION AT 25°C		
PARAMETER	MAX	UNITS
C/E BREAKDOWN VOLTAGE	30	V
E/C BREAKDOWN VOLTAGE	5	V
POWER DISSIPATION	100	mW
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY		5 SEC. MAX

*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 MAX.= +0.00
-0.00-DECIMAL PRECISION



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