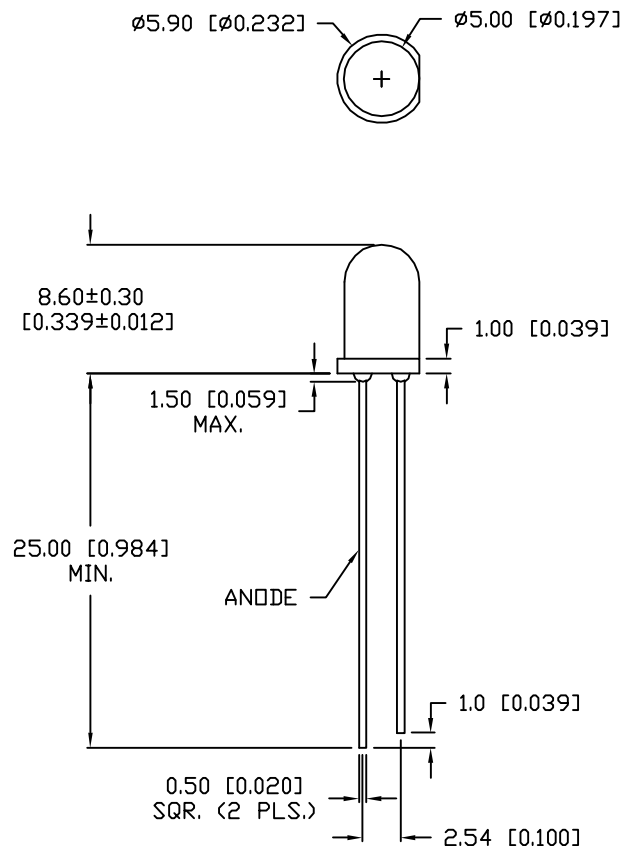
ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		870		nm	
SPECTRAL BANDWIDTH		50		nm	
FORWARD VOLTAGE		1.3	1.6	V_f	$I_f=20\text{mA}$
		1.6*	2.0*	V_f	$I_f=100\text{mA}$
REVERSE CURRENT			10	μV	$V_r=5\text{V}$
RADIANT INTENSITY	11	28		mW/str	$I_f=20\text{mA}$
		135*		mW/str	$I_f=100\text{mA}$
OPTICAL RISE TIME		15		ns	$I_f=50\text{mA}$
OPTICAL FALL TIME		6.3		ns	$I_f=50\text{mA}$
HALF ANGLE		30		2X theta	
EPOXY LENS FINISH: WATER CLEAR					

* PULSE WIDTH $\leq 100 \mu\text{s}$ AND DUTY $\leq 1\%$ LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT *	1	A
STEADY CURRENT	100	mA
POWER DISSIPATION	150	mW
DERATE FROM 25°C	-1.2	mW/ $^{\circ}\text{C}$
OPERATING TEMPERATURE	-40 TO +85	$^{\circ}\text{C}$
STORAGE TEMPERATURE	-40 TO +100	$^{\circ}\text{C}$
SOLDERING TEMP.	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

* PULSE WIDTH $\leq 100 \mu\text{s}$ AND DUTY $\leq 1\%$

*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 -DECIMAL PRECISION

REV.

PART NUMBER
OED-CL5093C30/DT-5mm (T-1 3/4) 870nm INFRARED LED,
WATER CLEAR LENS.

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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.

LUMEX
Creating LED and LCD Solutions Together™

290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY:

JN

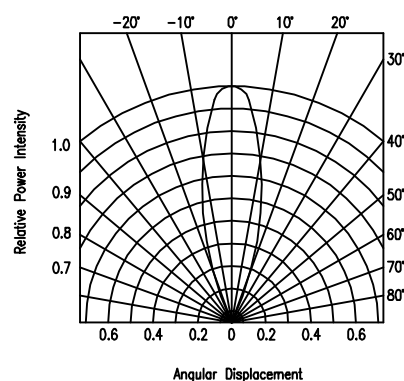
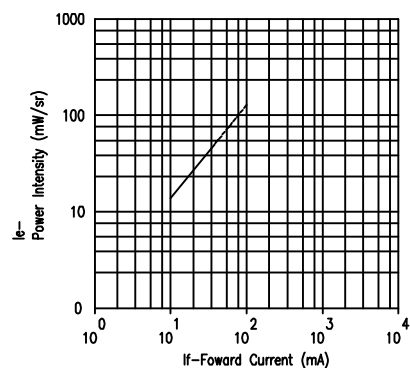
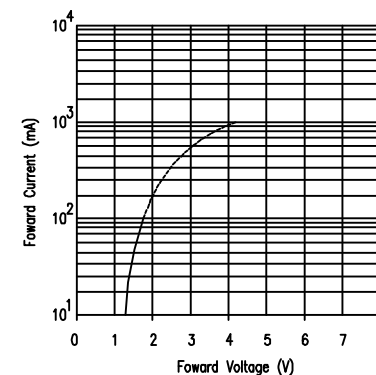
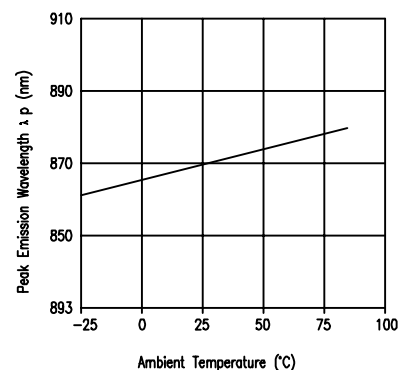
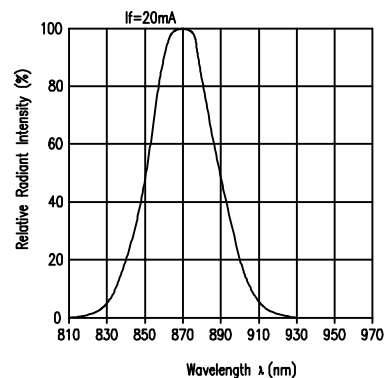
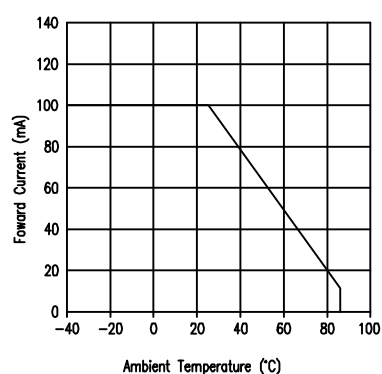
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DATE: 06.15.09

PAGE: 1 OF 2

SCALE: N/A



*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 -DECIMAL PRECISION

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