

UNCONTROLLED DOCUMENT

PART NUMBER

OED-ELA2127-TR11

REV.

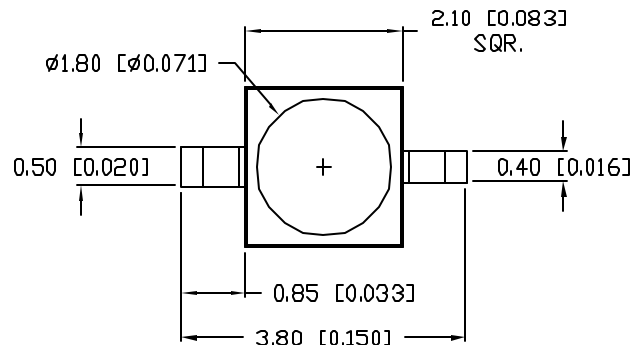
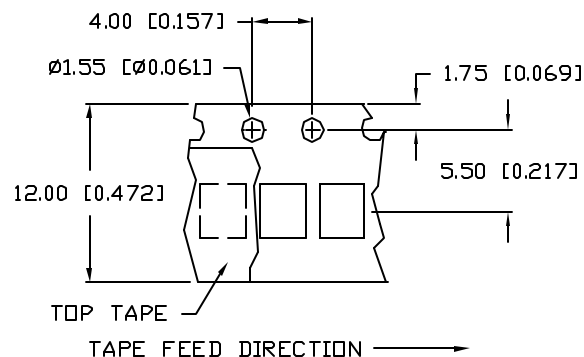
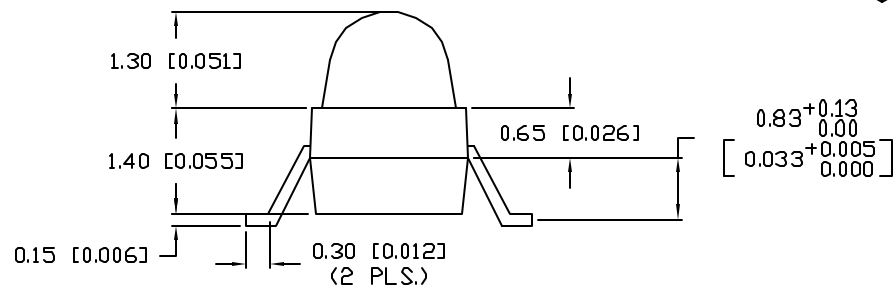
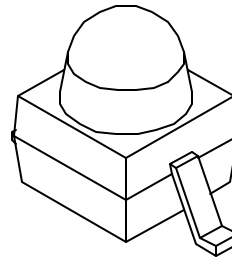
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REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

A E.C.N. #10722.

3.8.01

ANODE  CATHODEELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940		nm	
FORWARD VOLTAGE		1.2	1.5	V_f	$I_f=20\text{mA}$
		1.4	1.85*	V_f	$I_f=100\text{mA}$
		2.6	4.0*	V_f	$I_f=1.0\text{A}$
REVERSE VOLTAGE	5.0			V_r	$I_f=10\mu\text{A}$
RADIANT INTENSITY	3.0	5.0		mW/SR	$I_f=20\text{mA}$
		25*		mW/SR	$I_f=100\text{mA}$
		260*		mW/SR	$I_f=1.0\text{A}$
HALF ANGLE		± 25		degrees	

A EPOXY LENS FINISH: WATER CLEAR

* $t_p=100\mu\text{s}$, $t_p/T=0.01$ LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1000	mA
STEADY CURRENT	65	mA
POWER DISSIPATION	130	mW
DERATE FROM 25°C	-1.6	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

* $t<100\mu\text{s}$

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X= ± 1 (± 0.039), XX= ± 0.5 (± 0.020), XXX= ± 0.25 (± 0.010), XXXX= ± 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

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1.9mm ROUND IR LED EMITTER,
AXIAL GULL WING LEAD, TAPE AND REEL.

CONFIDENTIAL INFORMATION

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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.



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:

CHECKED BY:

APPROVED BY:

DATE: 1.22.01

TM/BC

PAGE: 1 OF 1

SCALE: N/A