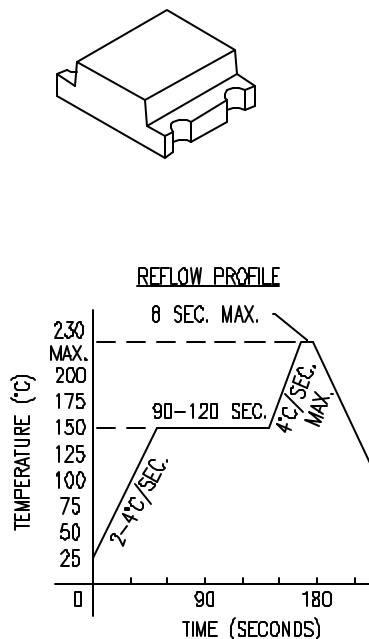
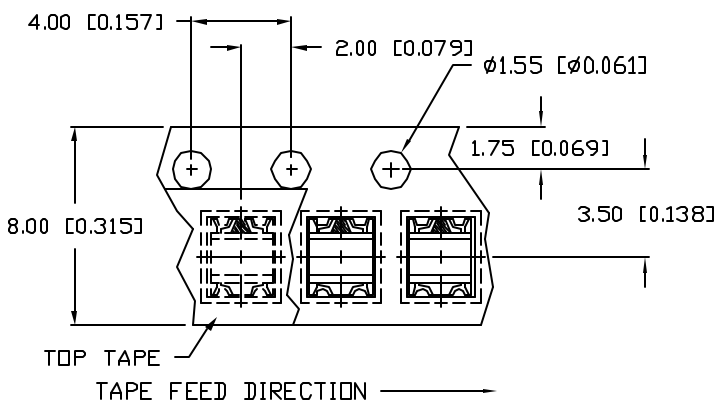
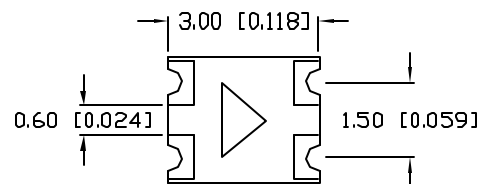
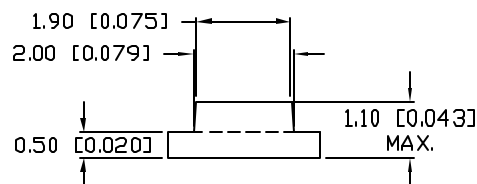
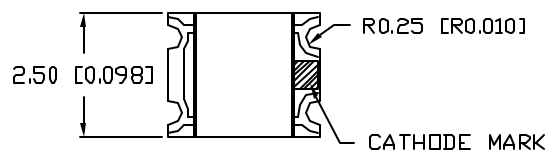
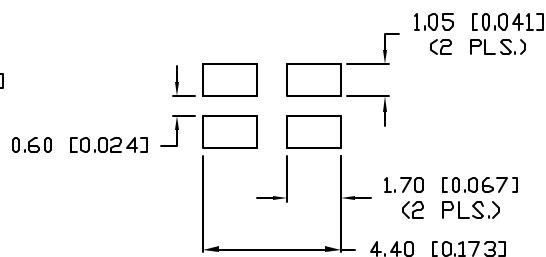


OED-HPI2530C120-TR

PRELIMINARY IN P/N DIR



RECOMMENDED SOLDER PAD LAYOUT

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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
OPEN CIRCUIT VOLTAGE	V_{OC}	$H=5\text{mW/cm}^2$ $\lambda=940\text{nm}$		0.39		V
REVERSE BREAKDOWN VOLTAGE	$V_{(BR)R}$	$I_R=100\mu\text{A}$ $H=0\text{mW/cm}^2$	33	170		V
DARK CURRENT	I_D	$H=0\text{mW/cm}^2$ $V_R=10\text{V}$			30	nA
REVERSE LIGHT CURRENT	I_L	$H=0.8\text{mW/cm}^2$ $V_R=10\text{V}$ $\lambda=940\text{nm}$	0.7	1.5		mA
TERMINAL CAPACITANCE	C_T			18		pF
RESPONSE TIME	T_R/T_F	$V_R=10\text{V}$ $R_L=1000$		45		nS
SPECTRAL SENSITIVITY	λ			400~1100		nm
PEAK WAVELENGTH	λ_P			940		nm
LENS COLOR				WATER CLEAR		

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
POWER DISSIPATION	100	mW
OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$

NOTES:

- 2,000 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE

- SHELF LIFE IN SEALED BAG:
12 MONTHS AT $<40^\circ\text{C}$ AND $<80\%$ RELATIVE HUMIDITY (RH).
- AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE MOUNTED WITHIN 48 HOURS OR STORED AT $<30\%$ RH.

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.030), 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 MAX.=+0.00 -0.00 -DECIMAL PRECISION

REV.

PART NUMBER

OED-HPI2530C120-TR

SMT PHOTODIODE, 2530 SMT PACKAGE, 940nm PEAK.

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:

GT

CHECKED BY:

APPROVED BY:

DATE: 3.7.03

PAGE: 1 OF 1

SCALE: N/A