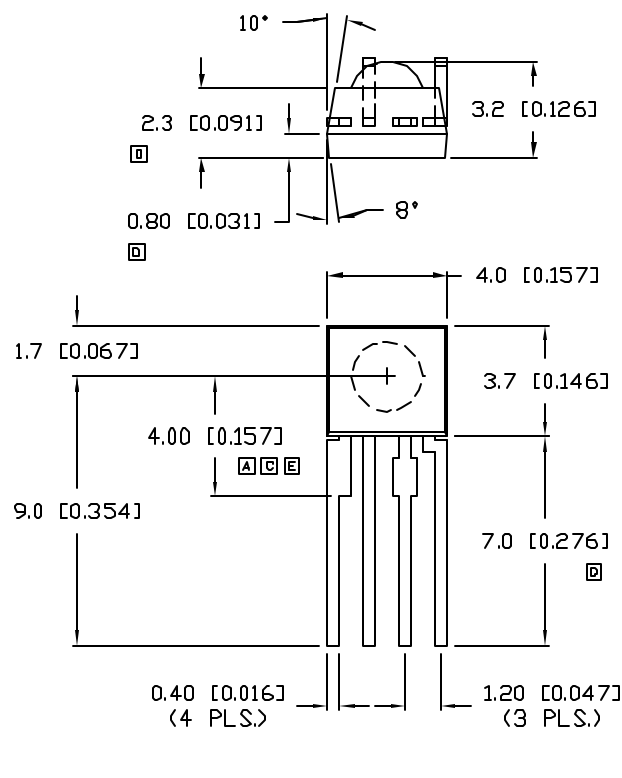


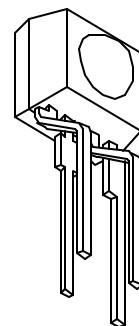
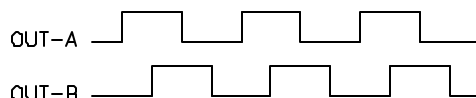
UNCONTROLLED DOCUMENT



PIN OUT:

1. OUT-B.
2. GND.
3. VCC.
4. OUT-A.

TIMING CHART:

PART NUMBER
OED-LDR2444HREV.
E

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10627.	6.2.00
B	E.C.N. #10643. & REDRAWN IN 3D.	7.13.00
C	E.C.N. #10679.	11.15.00
D	E.C.N. #10682.	12.12.00
E	E.C.N. #10706.	1.18.01

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$, $R_s=100\text{K}\Omega$

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
SUPPLY VOLTAGE	V_{CC}		3.5	5.0	5.5	V
SUPPLY CURRENT	I_{CC}	$V_{CC}=5.5\text{V}$ (all output low) PHOTO DETECTOR 1 DARK		0.1	1.0	μA
INPUT LEAKAGE	I_{IN}	$V_{CC}=5.0\text{V}$ $V_{IN}=5.0\text{V}$ (for $T_1 \sim T_4$)			750	μA
OUTPUT CURRENT	I_{OH}	$V_{CC}=5.0\text{V}$, $V_{OH}=4.5\text{V}$			-450	μA
	I_{OL}	$V_{CC}=5.0\text{V}$, $V_{OL}=0.5\text{V}$	2.5			mA
PULSE DURATION	T_{ON}			15		μS
PULSE DURATION	T_{OFF}			15		μS
EPOXY LENS FINISH:		BLACK RESIN EPOXY				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	RATING	UNITS
SUPPLY VOLTAGE	V_{CC}	-0.2~7.0	V
OTHER VOLTAGE		-0.3~ $V_{CC}+1.03$	V
OPERATING TEMP.	T_{OPR}	-40 TO +75	$^\circ\text{C}$
STORAGE TEMP.	T_{STR}	-40 TO +80	$^\circ\text{C}$
SOLDERING TEMP.		+260	$^\circ\text{C}$
2.0mm FROM BODY			3 SEC. MAX

NOTES:

1. CHIPS ARE MOUNTED HORIZONTALLY.

UNCONTROLLED DOCUMENT

*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 MAX.=+0.00 -DECIMAL PRECISION

REV.

E

PART NUMBER

OED-LDR2444H

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.



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2.4mm DOMED RIGHT ANGLE DETECTOR,
4 LEADED, BLACK RESIN EPOXY, HORIZONTAL CHIPS.

DRAWN BY:

CHECKED BY:

APPROVED BY:

DATE: 3.23.00

TM/BC

PAGE: 1 OF 1

SCALE: N/A