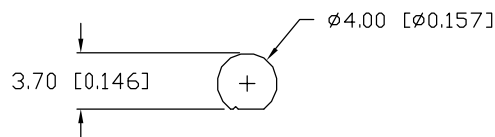
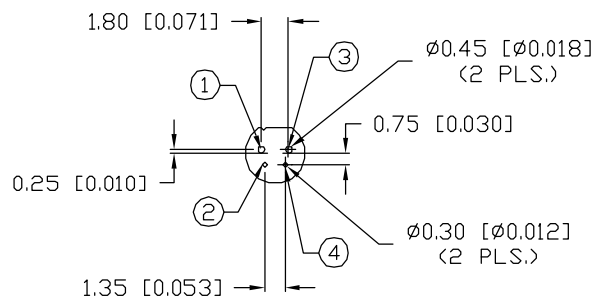
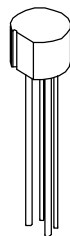
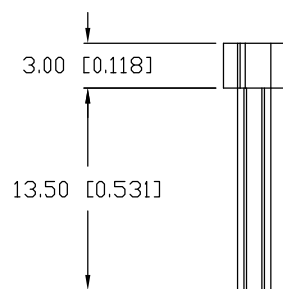
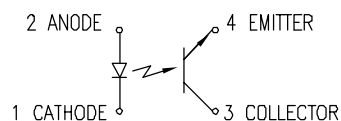


UNCONTROLLED DOCUMENT



TOP VIEW PIN LAYOUT

PART NUMBER
OED-SR-2BC

REV.

A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	5.5.03

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
INPUT:						
PEAK WAVELENGTH			940		nm	
FORWARD VOLTAGE	V_f			1.2	V	$I_f = 10\text{ mA}$
REVERSE CURRENT	I_r			10	μA	$V_r = 5\text{ V}$
OUTPUT:						
COLLECTOR DARK CURRENT	I_{ceo}			0.1	μA	$V_{ce} = 10\text{ V}$
COLLECTOR LIGHT CURRENT	I_L		100		μA	$V_{ce} = 2\text{ V}$ $I_f = 4\text{ mA}$
LEAKAGE CURRENT	I_{ceod}			0.1	μA	$V_{ce} = 2\text{ V}$ $I_f = 4\text{ mA}$
SWITCHING SPEEDS:						
RISE TIME	T_r		30		μs	$V_{cc} = 2\text{ V}$ $I_c = 0.1\text{ mA}$
FALLING TIME	T_f		30		μs	$R_L = 1\text{ K } \Omega$

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	MAX	UNITS
INPUT:			
REVERSE VOLTAGE	V_r	5	V
POWER DISSIPATION	P_d	75	mW
FORWARD CURRENT	I_f	50	mA
OUTPUT:			
COLLECTOR POWER DISSIPATION	P_c	75	mW
COLLECTOR CURRENT	I_c	20	mA
C-E VOLTAGE	V_{ceo}	30	V
E-C VOLTAGE	V_{eco}	3	V
OPERATING TEMP.	$T_{opr.}$	-20 TO +90	$^\circ\text{C}$
STORAGE TEMP.	$T_{stg.}$	-30 TO +100	$^\circ\text{C}$
SOLDERING TEMP.	$T_{sol.}$	+260	$^\circ\text{C}$
2.0mm FROM BODY	dist.		5 SEC. MAX

UNCONTROLLED DOCUMENT

*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.

A

PART NUMBER
OED-SR-2BC

REFLECTIVE PHOTO SENSOR.

CONFIDENTIAL INFORMATION

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

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: 12.30.97
CT			PAGE: 1 OF 1
			SCALE: N/A