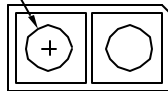
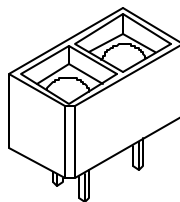
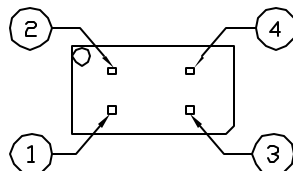
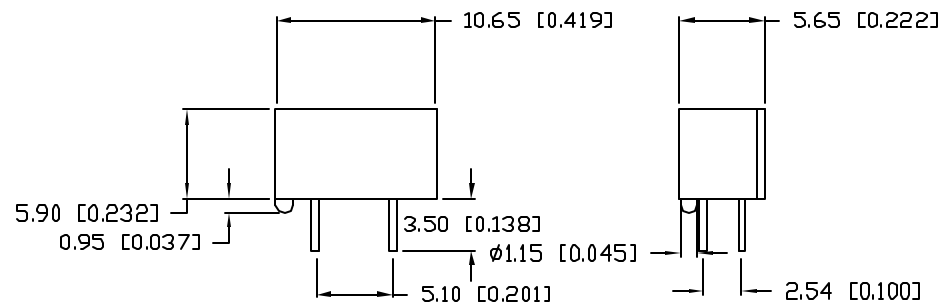


TOP VIEW PIN LAYOUT

Ø3.00 [Ø0.118]
(2 PLS.)



2 CATHODE
3 COLLECTOR
1 ANODE
4 EMITTER

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	1.5	V	$I_f = 20\text{ mA}$
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	0.5		20	mA	$V_{ce} = 3\text{ V}$ $I_f = 40\text{ mA}$
LEAKAGE CURRENT	I_{ceod}			1	μA	$V_{ce} = 3\text{ V}$ $I_f = 40\text{ mA}$
SWITCHING SPEEDS:						
RISE TIME	T_r		25		μs	$V_{cc} = 2\text{ V}$ $I_c = 0.1\text{ mA}$
FALLING TIME	T_f		25		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	60	mA
OUTPUT:			
COLLECTOR POWER DISSIPATION	P_c	100	mW
COLLECTOR CURRENT	I_c	20	mA
C-E VOLTAGE	V_{ceo}	20	V
E-C VOLTAGE	V_{eco}	5	V
OPERATING TEMP.	$T_{opr.}$	-25 TO +85	$^\circ\text{C}$
STORAGE TEMP.	$T_{stg.}$	-25 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	$T_{sol.}$	+260	$^\circ\text{C}$
2.0mm FROM BODY	dist.		5 SEC. MAX

*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=+0.00 PRECISION MAX=+0.00 PRECISION

REV.

PART NUMBER
OED-SR3051

REFLECTIVE PHOTO SENSOR.

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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APPROVED BY:

DATE: 10.28.04

PAGE: 1 OF 1

SCALE: N/A