

DATE

REVISIONS

REV

DRAWING NUMBER
OED-SI3292-2TV-300

REV

REPLACES PART: OED-SG-23FH-300RBI

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
INPUT:						
FORWARD VOLTAGE	V_f		1.2	1.5	V	$I_f = 30\text{ mA}$
REVERSE CURRENT	I_r			10	μA	$V_r = 5\text{ V}$
OUTPUT:						
COLLECTOR DARK CURRENT	I_{ce0}			0.1	μA	$V_{ce} = 10\text{ V}$ $I_f = 20\text{ mA}$
COLLECTOR LIGHT CURRENT	I_L	0.3			mA	$V_{ce} = 5\text{ V}$ $I_f = 20\text{ mA}$
C/E SATURATION VOLTAGE	$V_{cc}(\text{sat})$			0.4	V	$I_f = 30\text{ mA}$ $I_c = 0.1\text{ mA}$
SWITCHING SPEEDS:						
RIISING TIME	T_r		5		μS	$V_{cc} = 5\text{ V}$ $I_c = 2\text{ mA}$
FALLING TIME	T_f		5		μS	$R_I = 100\ \Omega$

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	MAX	UNITS
INPUT:			
REVERSE VOLTAGE	V_r	5	V
POWER DISSIPATION	P_d	100	mW
FORWARD CURRENT	I_f	60	mA
OUTPUT:			
COLLECTOR POWER DISSIPATION	P_c	100	mW
COLLECTOR CURRENT	I_c	40	mA
C-E VOLTAGE	V_{ce0}	30	V
E-C VOLTAGE	V_{ec0}	5	V
OPERATING TEMP.	$T_{opr.}$	-20 TO +85	$^\circ\text{C}$
STORAGE TEMP.	$T_{stg.}$	-30 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	$T_{sol.}$	+240	$^\circ\text{C}$
2.0mm FROM BODY	dist.		5 SEC. MAX

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.

LUMEX
INCORPORATED

290 E. HELLEN ROAD
PALATINE, ILLINOIS 60067
(847) 359-2790

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DATE: 1-5-98

DWN:

CHK'D:

APPD:

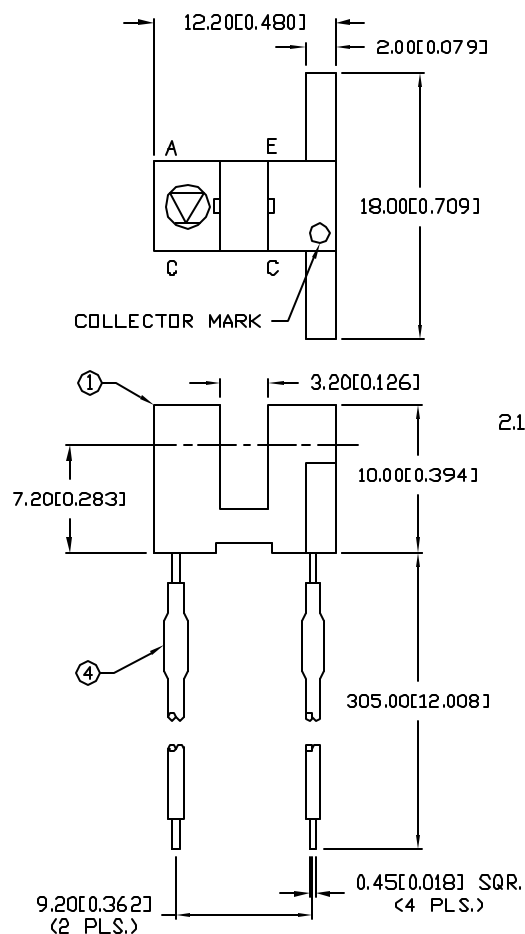
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PHOTO INTERRUPTER.

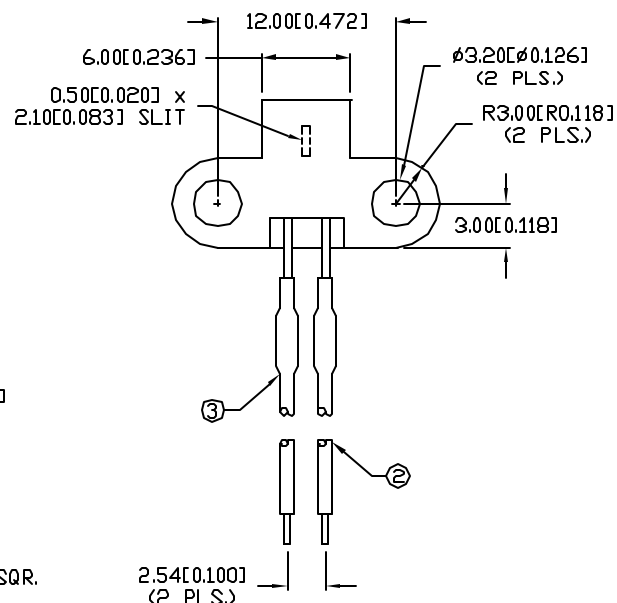
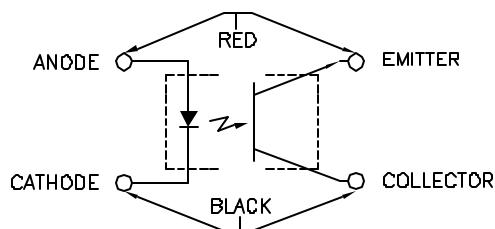
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UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010"$)

TOP VIEW PIN LAYOUT

**NOTES:**

- OED-SG-23FH.
- 24 AWG, STRANDED, 305mm (12"), RED INSULATION, STRIP 11mm.
- 24 AWG, STRANDED, 305mm (12"), BLACK INSULATION, STRIP 11mm.
- CRIMP LEAD WIRES AS SHOWN. INSULATE WITH HEAT SHRINK TO WITHIN 3mm OF HOUSING.