

DATE

REVISIONS

REV

DRAWING NUMBER
OED-SR-201

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UNCONTROLLED DOCUMENT

REPLACES PART# OED-SG-201-RS

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

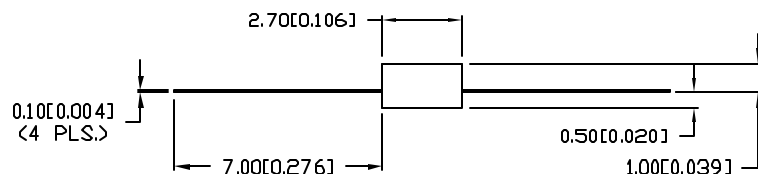
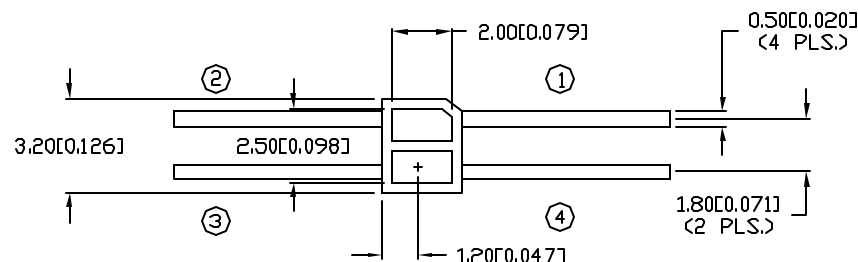
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
INPUT:						
FORWARD VOLTAGE	V_f			1.7	V	$I_f = 20\text{ mA}$
REVERSE CURRENT	I_r			10	μA	$V_r = 5\text{ V}$
OUTPUT:						
COLLECTOR DARK CURRENT	I_{ceo}			100	μA	$V_{ce} = 5\text{ V}$
COLLECTOR LIGHT CURRENT	I_L	0.23			μA	$V_{ce} = 5\text{ V}$ $I_f = 20\text{ mA}$
LEAKAGE CURRENT	I_{ceod}			0.2	μA	$V_{ce} = 5\text{ V}$ $I_f = 10\text{ mA}$
SWITCHING SPEEDS:						
RIISING TIME	T_r		1		μS	$V_{cc} = 5\text{ V}$ $I_c = 20\text{ mA}$
FALLING TIME	T_f		1		μS	$R_l = 20\text{ K}\Omega$

LIMITS OF SAFE OPERATION AT 25°C

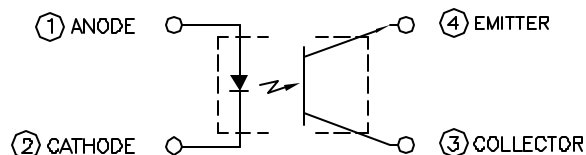
PARAMETER	SYMBOL	MAX	UNITS
INPUT:			
REVERSE VOLTAGE	V_r	5	V
POWER DISSIPATION	P_d	60	mW
FORWARD CURRENT	I_f	50	mA
OUTPUT:			
COLLECTOR POWER DISSIPATION	P_c	150	mW
COLLECTOR CURRENT	I_c	30	mA
C-E VOLTAGE	V_{ce}	12	V
E-C VOLTAGE	V_{eco}	3	V
OPERATING TEMP.	$T_{opr.}$	-20 TO +85	$^\circ\text{C}$
STORAGE TEMP.	$T_{stg.}$	-30 TO +100	$^\circ\text{C}$
SOLDERING TEMP.	$T_{sol.}$	+240	$^\circ\text{C}$
2.0mm FROM BODY	dist.		3 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.



TOP VIEW PIN LAYOUT



UNCONTROLLED DOCUMENT

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

DU

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DATE: 12-31-97	DWN:	CHK'D:	APPD:
SCALE: N/A			

REFLECTIVE PHOTO SENSOR.

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