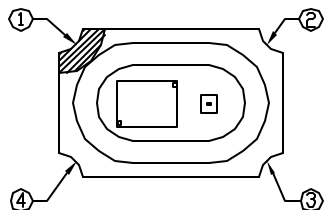
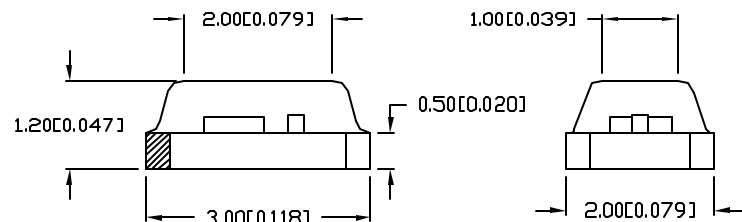
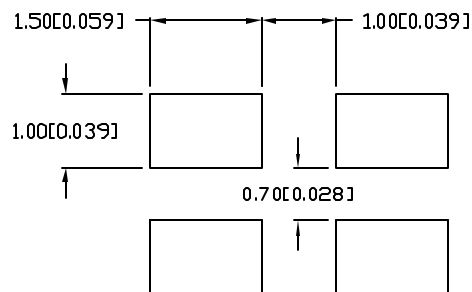


DATE	REVISIONS	REV	DRAWING NUMBER	REV
12-31-97	E.C.N. #10BRDR./	A	OED-HPI-CL-323	A

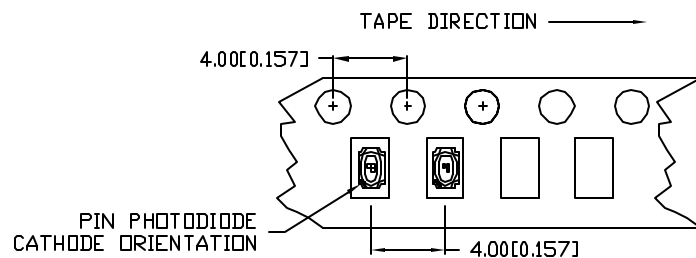


- ① CATHODE MARKED, PIN PHOTO DIODE.
 ② CATHODE, INFRARED.
 ③ ANODE, INFRARED.
 ④ ANODE, PIN PHOTO DIODE.

NOTE
 1. 3000 PCS. PER TAPE AND REEL.



SOLDER PAD LAYOUT



UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±.25mm (±0.010")

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C OF PIN PHOTODIODE						
	SYM	MIN	TYP	MAX	UNITS	COND.
REVERSE VOLTAGE	V_R	33	—	—	V	—
OPEN CIRCUIT VOLTAGE	V_O	300	390	—	mV	$E_V=1000$ Lux
SHORT CIRCUIT CURRENT	I_{SC}	—	2.0	—	µA	$E_V=1000$ Lux
DARK CURRENT	I_R	—	—	1.0	nA	$V_R=20V$
TURN ON/OFF TIME	on/off	—	6	—	ns	—

ELECTRO-OPTICAL CHARACTERISTICS OF INFRARED EMITTER @ 25°C, $I_F=50mA$

	MIN	TYP	MAX	UNITS
RADIATED POWER (20mA)	2.0	2.5	—	mW
RADIATED POWER (100mA)	—	11.4	—	mW
PEAK EMISSION WAVELENGTH	—	865	—	nm
SPECTRAL HALF BAND WIDTH	—	41	—	nm
FORWARD VOLTAGE @ 20mA	—	1.6	—	V
REVERSE LEAKAGE CURRENT ($V_R=6V$)	—	—	1.8	µA
REVERSE VOLTAGE	5.0	—	8.0	V
RISE-TIME	—	30	—	ns
FALL-TIME	—	15	—	ns

LIMITS OF SAFE OPERATION		
	SYMBOL	MAX
POWER DISSIPATION	P_{tot}	150mW
DERATING LINEAR	—	2.6 mW/°C
PEAK FORWARD CURRENT	I_{FSM} (10µs)	800mA
CONTINUOUS FORWARD CURRENT	I_F	75mA
STORAGE TEMP.	T_{st}	-25 to 120°C
OPERATING TEMP.	T_{op}	-25 to 80°C
SOLDERING TEMP.	T_{sold} (10 sec)	250°C
JUNCTION TEMP.	T_j	120°C

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

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DATE: 10-31-96	DWN:	CHK'D:	APPD:
SCALE: N/A			

T3 x 2mm CERAMIC DUAL CHIP SMT,
 INFRARED EMITTING, PIN PHOTODIODE.

PAGE 1 OF 1	DRAWING NUMBER OED-HPI-CL-323	REV A
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