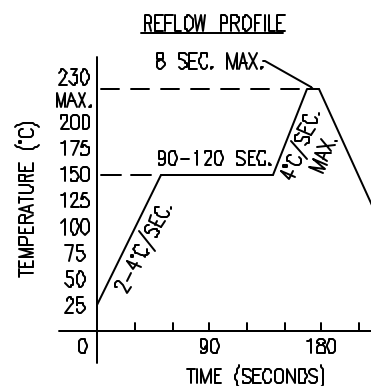
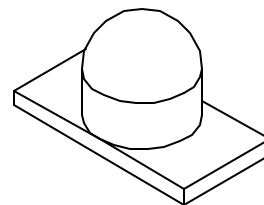
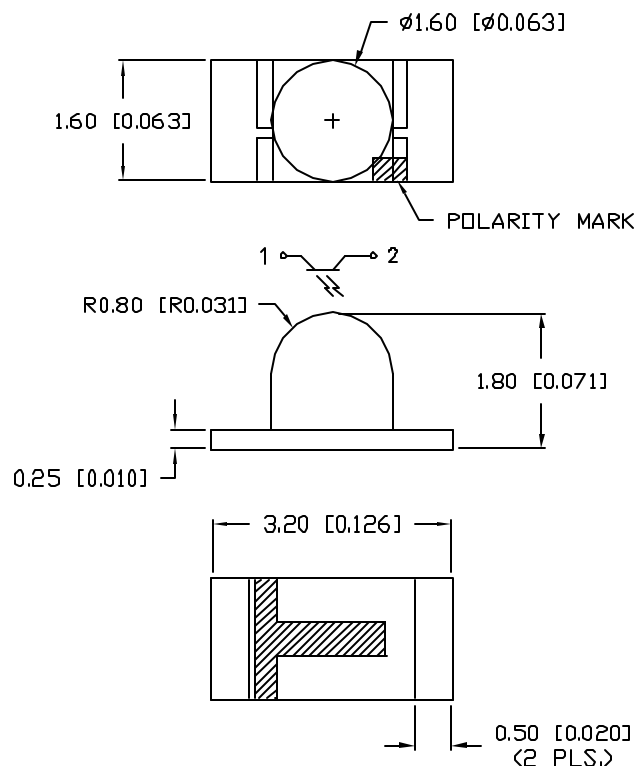
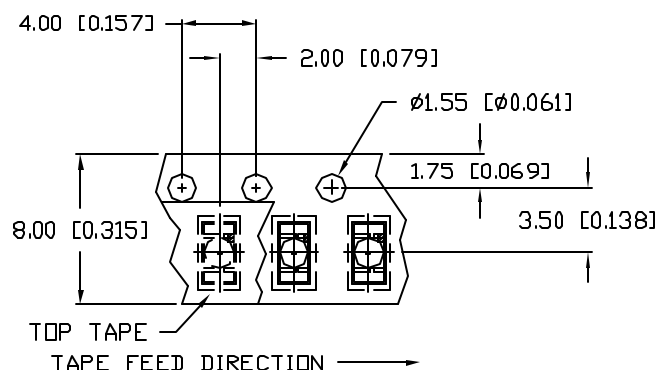
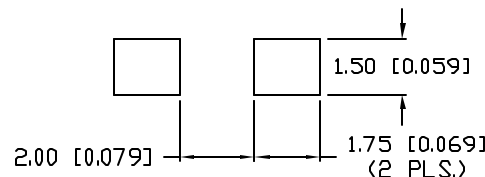




RECOMMENDED SOLDER PAD LAYOUT



*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 -0.00, MAX.= +0.00 -DECIMAL PRECISION

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
COLLECTOR DARK CURRENT			100	nA	$V_{ce} = 10\text{V}$ $E_e = 0 \text{ mW/cm}^2$
COLLECTOR LIGHT CURRENT	0.4	1.0		mA	$V_{ce} = 5\text{V}$ $E_e = 1 \text{ mW/cm}^2$
COLLECTOR-EMITTER SATURATION VOLTAGE			0.8	V	$I_c = 2\text{mA}$ $E_e = 20 \text{ mW/cm}^2$
SWITCHING SPEEDS:					$V_{ce} = 5\text{V}$ $I_c = 1 \text{ mA}$ $R_I = 1000 \Omega$
RISING TIME		3		μS	
FALLING TIME		3		μS	
PEAK WAVELENGTH SENSITIVITY		880		nm	
SPECTRAL HALF WIDTH:		400-1200		nm	
LENS COLOR:		WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE (V_{ce})	30	V
EMITTER-COLLECTOR VOLTAGE (V_{ce})	5	mA
COLLECTOR CURRENT	20	mA
POWER DISSIPATION	100	mW
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

NOTES:

- 2,000 PIECES PER REEL.
- THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

REV.

PART NUMBER

OED-ST1307C-TR

3.2mm x 1.6mm PCB PHOTO TRANSISTOR,

WATER CLEAR DOME LENS, TAPE AND REEL

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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PAGE: 1 OF 1

SCALE: N/A

JD