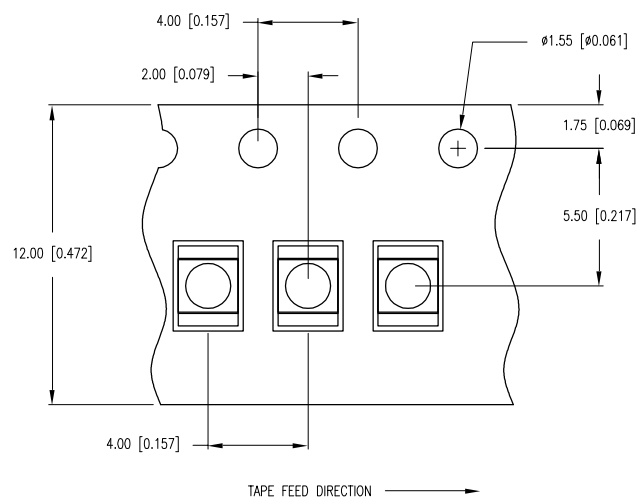
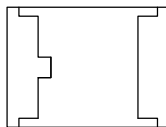
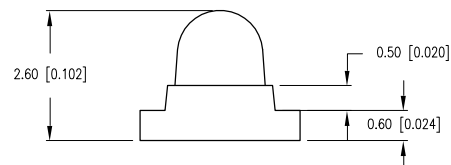
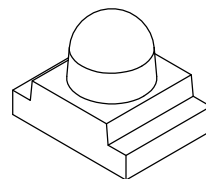
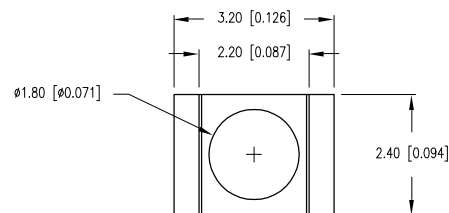
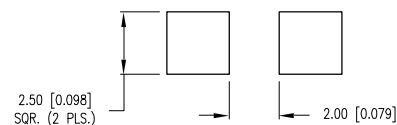




RECOMMENDED SOLDER PAD LAYOUT

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		875		nm	
FORWARD VOLTAGE		1.3	1.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r = 100\mu\text{A}$
RADIANT INTENSITY	1.5	4.0		mW/SR	$I_f = 20\text{mA}$
HALF ANGLE		25		degrees	
EPOXY LENS FINISH: WATER CLEAR					

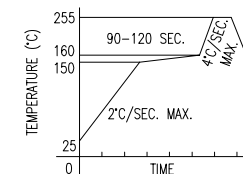
LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1000	mA
STEADY CURRENT	65	mA
POWER DISSIPATION	130	mW
DERATE FROM 25°C	- 1.2	mW/ $^\circ\text{C}$
OPERATING TEMP.	-40 TO $+85$	$^\circ\text{C}$
STORAGE TEMP.	-40 TO $+85$	$^\circ\text{C}$
SOLDERING TEMP.	$+260$	$^\circ\text{C}$
2.0mm FROM BODY	3	SEC. MAX

* $t < 10\mu\text{s}$

LEAD FREE REFLOW PROFILE

10 SEC. MAX.

TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. 1,000 PCS. PER REEL.

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: $X=\pm 1$ (± 0.039), $X.X=\pm 0.5$ (± 0.020), $X.XX=\pm 0.25$ (± 0.010), $X.XXX=\pm 0.127$ (± 0.005). LEAD SIZE= ± 0.05 (± 0.002), LEAD LENGTH= ± 0.75 (± 0.030). MIN= $\frac{+ \text{DECIMAL PRECISION}}{-0.00}$ MAX.= $\frac{+0.00}{- \text{DECIMAL PRECISION}}$



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3.2 x 2.4mm SURFACE MOUNT IR EMITTER, 850nm INFRARED, WATER CLEAR LENS, TAPE AND REEL.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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DATE: 04.30.10	DRAWN BY: JH
PAGE: 1 OF 2	CHKD BY: KY
SCALE: N/A	APRVD BY: SS
UNIT: mm [INCH]	(P)

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