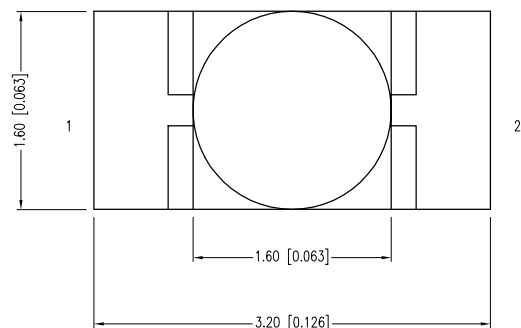
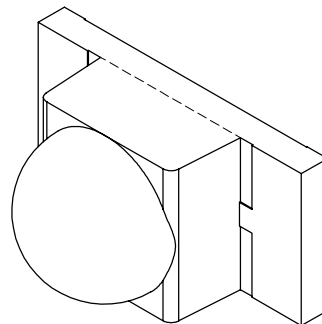




ANODE 1  2 CATHODE



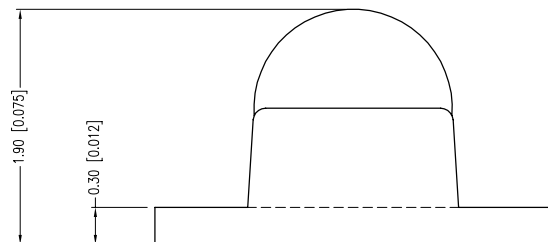
ELECTRO-OPTICAL CHARACTERISTICS TA =25°C If=20mA

PARAMETER	MIN	TYP.	MAX	UNITS	TEST COND
PEAK WAVELENGTH		875		nm	
SPECTRAL BANDWIDTH		42		nm	
FORWARD VOLTAGE		1.3	1.7	Vf	If=20mA
REVERSE VOLTAGE	5.0			Vr	Ir=10μA
RADIANT INTENSITY	2.0	4.5		mW/sr	If=20mA
HALF ANGLE		17.5		degrees	
EPOXY LENS FINISH:	WATER CLEAR				

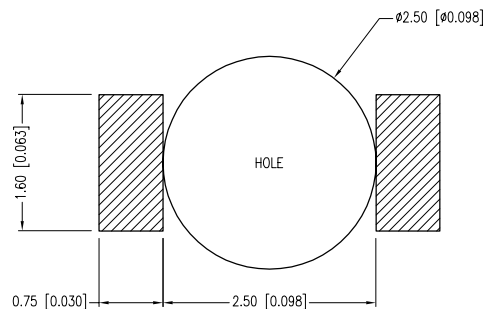
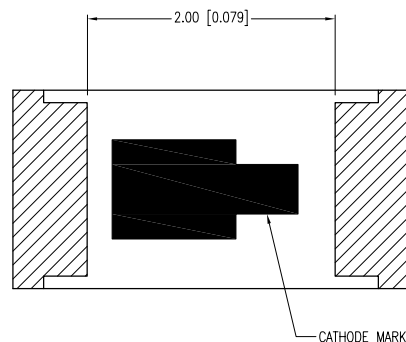
LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	--	mA
STEADY CURRENT	65	mA
POWER DISSIPATION	110	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-25 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

* t<100μS, tp/T=0.01



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 MAX.= +0.00 -DECIMAL PRECISION

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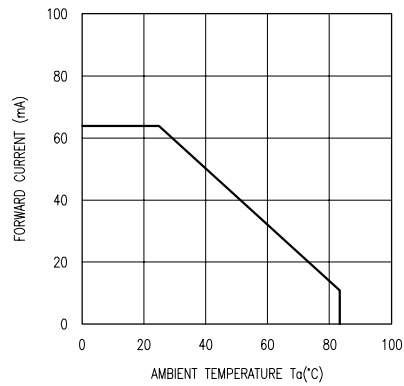
875nm IR EMITTER, WATER CLEAR LENS, TAPE & REEL.

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

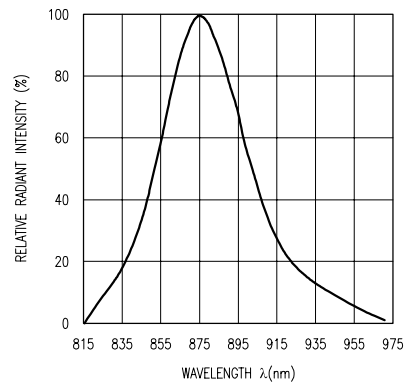
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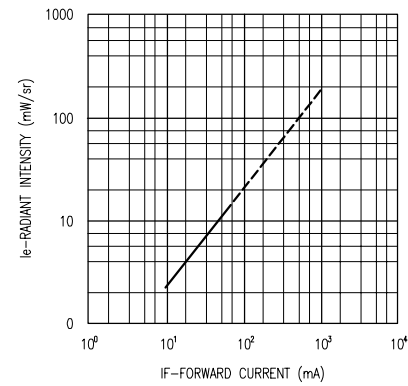
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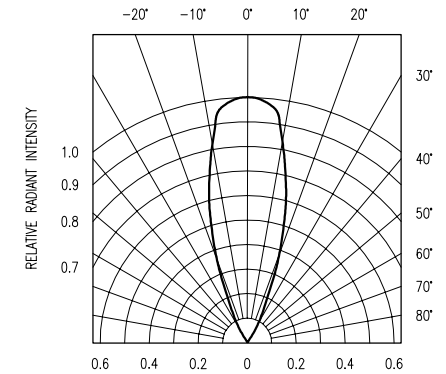
FORWARD CURRENT vs. AMBIENT TEMPERATURE



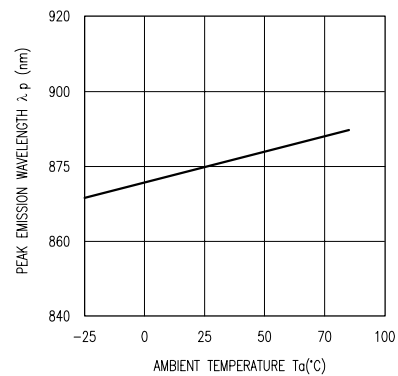
RELATIVE RADIANT INTENSITY vs. WAVELENGTH



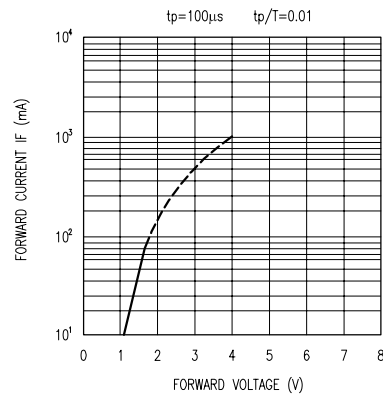
RELATIVE INTENSITY vs. FORWARD CURRENT



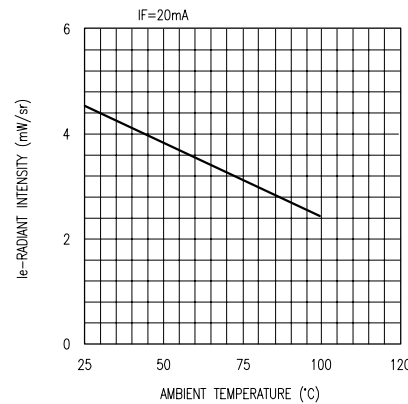
RELATIVE RADIANT INTENSITY vs. ANGULAR DISPLACEMENT



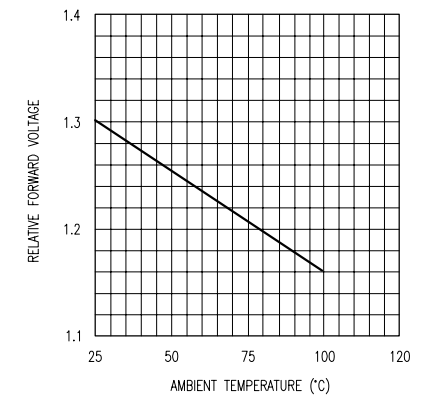
PEAK EMISSION WAVELENGTH vs. AMBIENT TEMPERATURE



FORWARD CURRENT vs. FORWARD VOLTAGE



RELATIVE INTENSITY vs. AMBIENT TEMPERATURE



RELATIVE FORWARD VOLTAGE vs. AMBIENT TEMPERATURE

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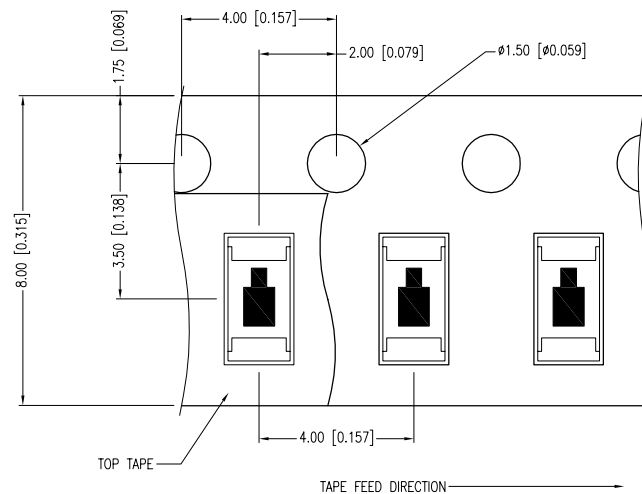
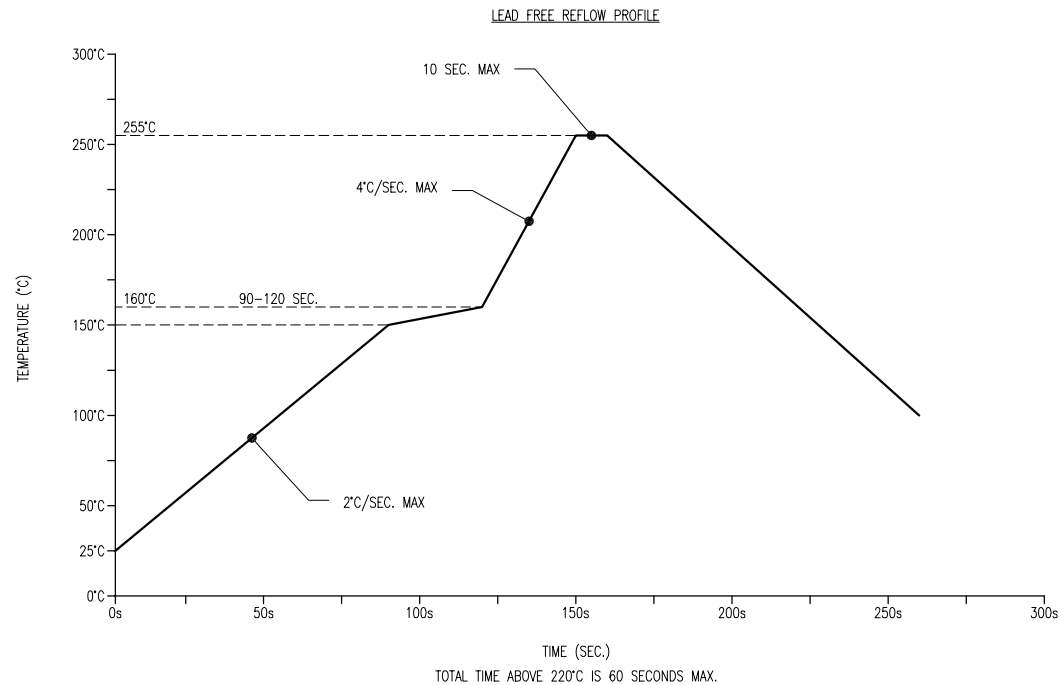
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875nm IR EMITTER, WATER CLEAR LENS, TAPE & REEL.

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NOTES:

1. 1500 PIECES PER REEL.
2. CATHODE ORIENTED TOWARDS TAPE SPROCKET HOLE.

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