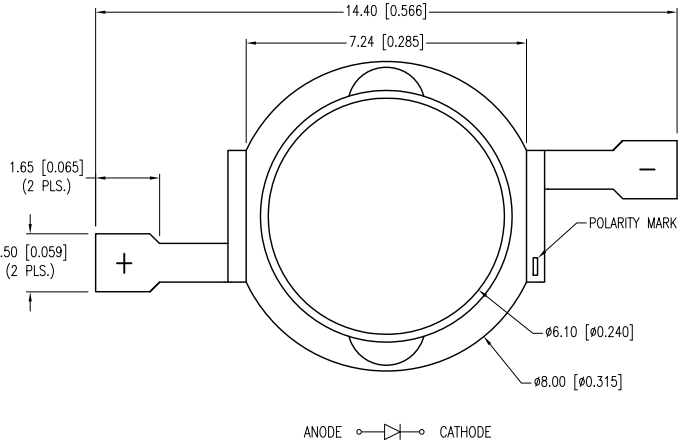
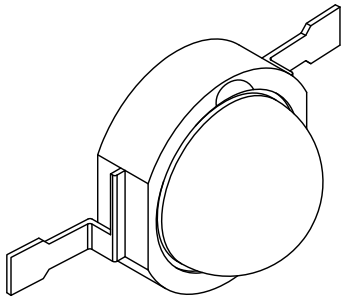
PART NUMBER	SML-LXL8047UVC	REV.	A





ELECTRO-OPTICAL CHARACTERISTICS Ta=25°C If=700mA

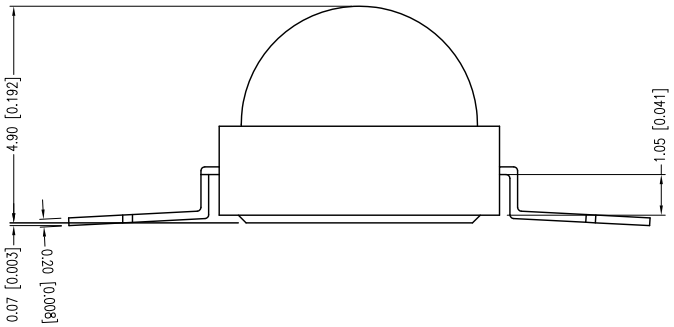
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
DOM. WAVELENGTH		405	410	nm	
FORWARD VOLTAGE	3.4	3.6	3.8	Vf	If=700mA
REVERSE VOLTAGE	5.0			Vr	Ir=100µA
AXIAL INTENSITY	14	18	22	Im	If=700mA
VIEWING ANGLE		100		2x theta	
EMITTED COLOR:	UV PURPLE				
LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	800	mA
STEADY CURRENT	700	mA
DERATE FROM 25°C	−1.2	mW/°C
OPERATING TEMP.	−20 TO +75	°C
STORAGE TEMP.	−30 TO +80	°C

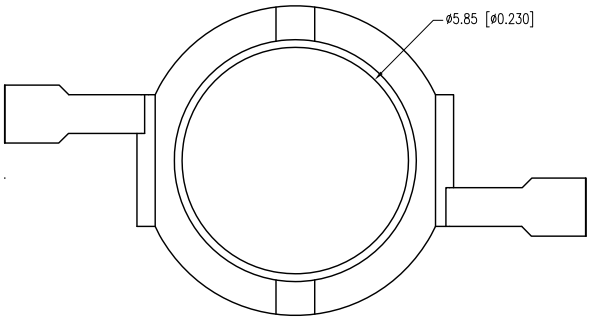
* t<10µS

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

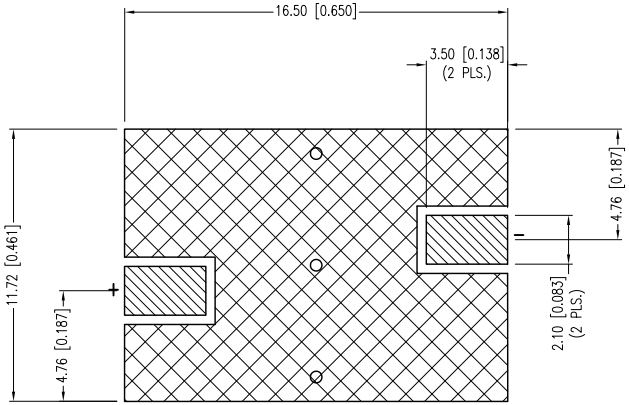


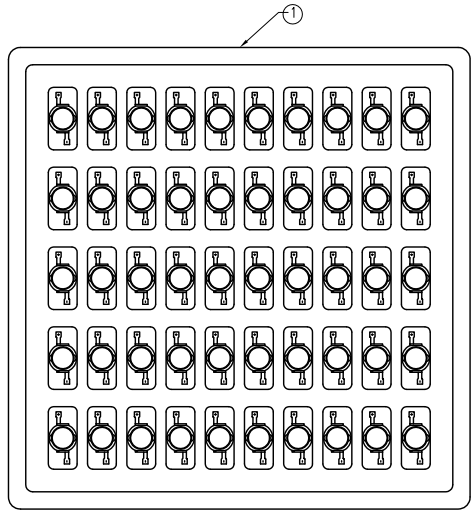
NOTES:

1. PACKAGING IN PLASTIC TRAY; 50 PIECES PER TRAY.



LED 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

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MEMBER OF ITW PHOTONICS GROUP

8mm ROUND TOP DOME SMT, 405nm UV PURPLE, HI-POWER, 2W.

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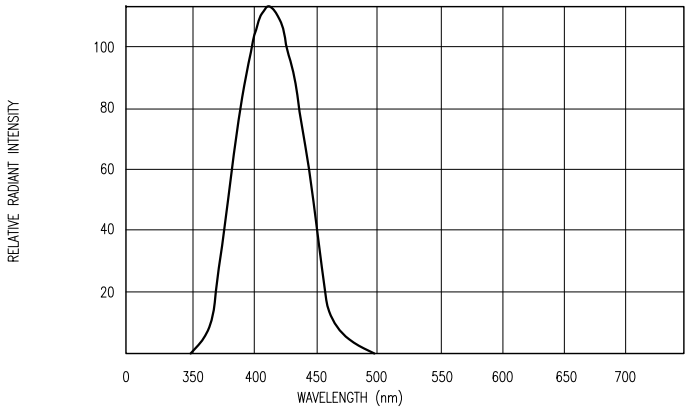
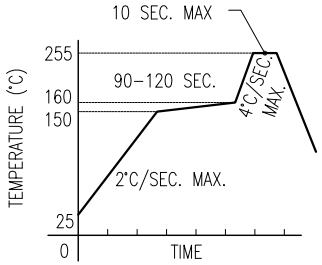
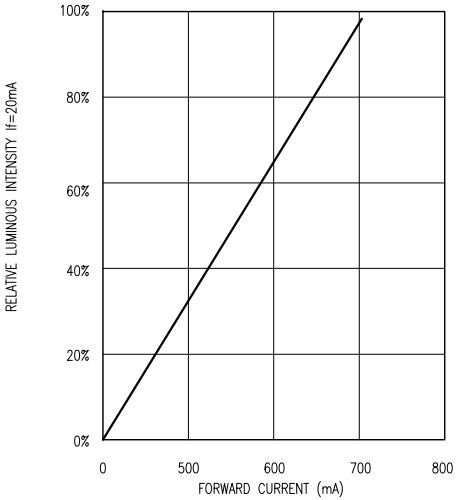


RELATIVE INTENSITY VS WAVELENGTH

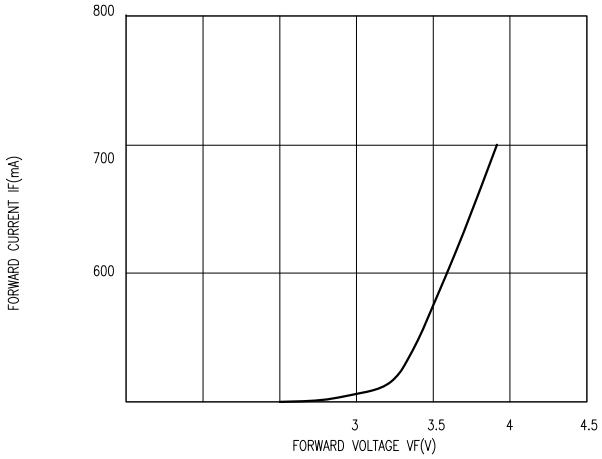
LEAD FREE REFLOW PROFILE



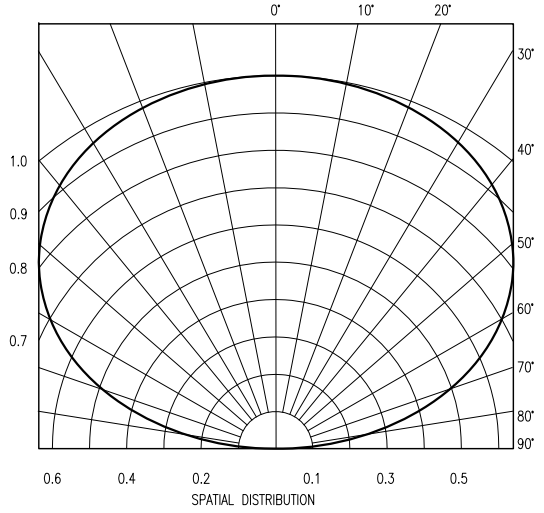
TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.



RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS FORWARD VOLTAGE



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