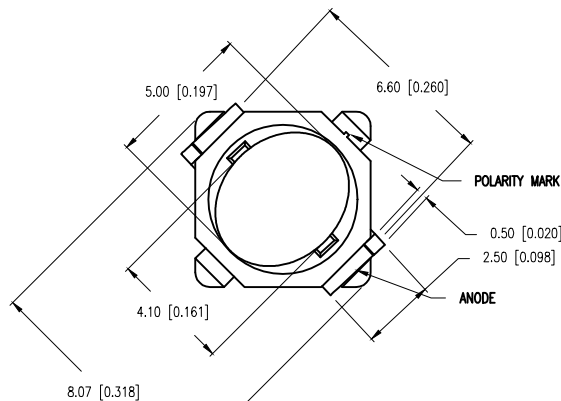


PART NUMBER	SML-H150E5USBDNCTR	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
12.01.09	E.C.N. #11599.		A
02.04.10	E.C.N. #11617.		B



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

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		465		nm	
FORWARD VOLTAGE	2.8		3.4	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY*	REFER TO CHART			mcd	$I_f=20\text{mA}$
VIEWING ANGLE (X)		60		2x theta	
VIEWING ANGLE (Y)		30		2x theta	
EMITTED COLOR:	BLUE				
EPOXY LENS FINISH:	BLUE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C PER DIE

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT**	100	mA
STEADY CURRENT	20	mA
POWER DISSIPATION	80	mW
DERATE FROM 25°C	- 1.2	mW/ $^\circ\text{C}$
OPERATING TEMP.	- 30 TO + 80	$^\circ\text{C}$
STORAGE TEMP.	- 40 TO + 100	$^\circ\text{C}$
SOLDERING TEMP.	+ 260	$^\circ\text{C}$
2.0mm FROM BODY		5 SEC. MAX

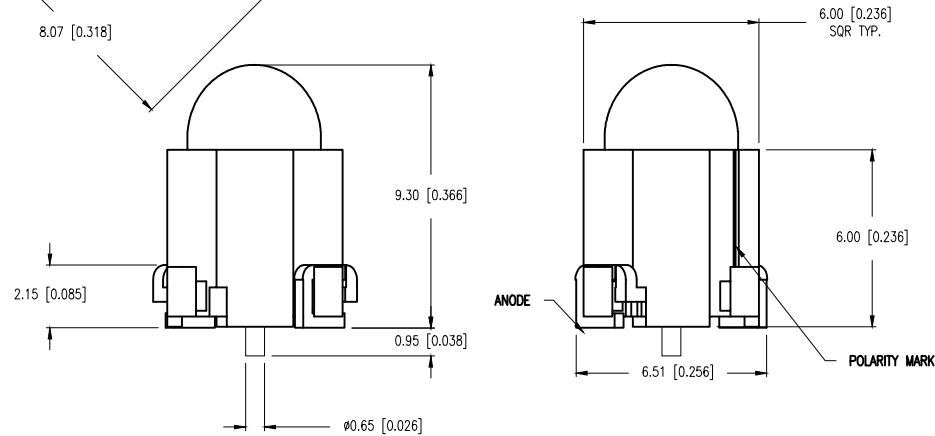
**1/10 DUTY CYCLE, 0.1mS PULSE WIDTH

*AXIAL INTENSITY BINS

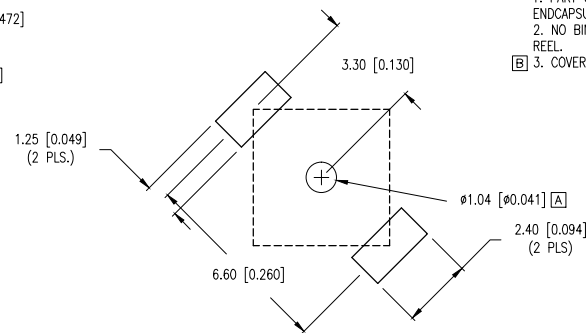
BIN	INTENSITY@20mA	
	MIN (mcd)	MAX (mcd)
0	800	1260
1	1260	1750

NOTES:

- PART USES ROUND REFLECTOR CUP WITH NO SILICONE ENDCAPSULATION OVER DIE.
- NO BIN CODE ON EACH REEL AS PARTS ARE MIXED BINS IN A REEL.
- COVER TAPE ON CARRIER IS HEAT SEALING TYPE.



RECOMMENDED 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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5X4mm ELLIPTICAL SURFACE MOUNTED DOME LED, 470nm ULTRA SUPER BLUE LED, BLUE DIFFUSED.

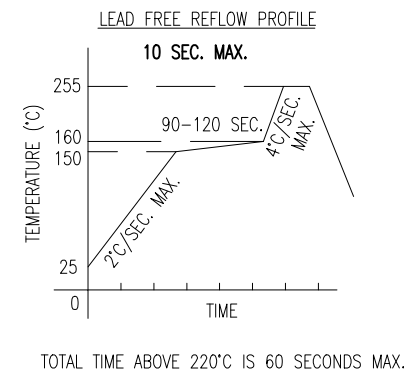
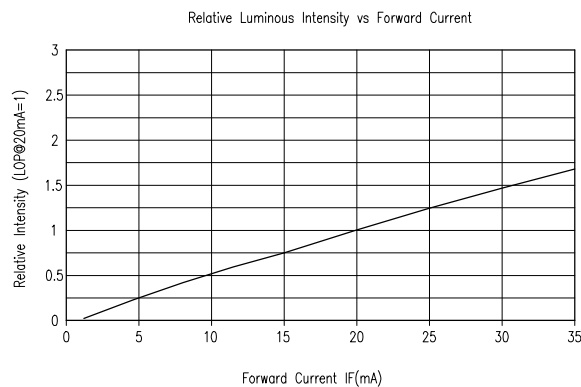
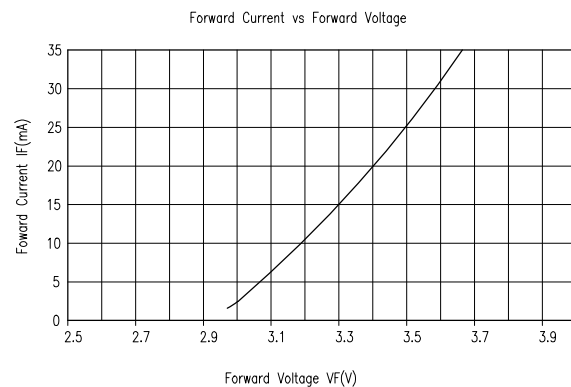
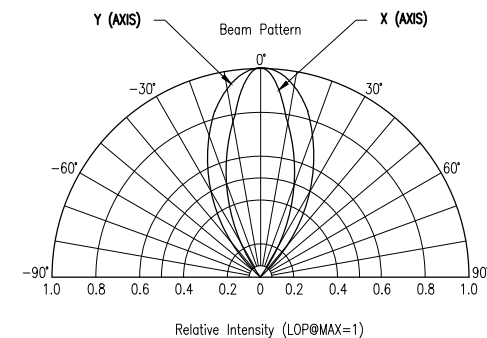
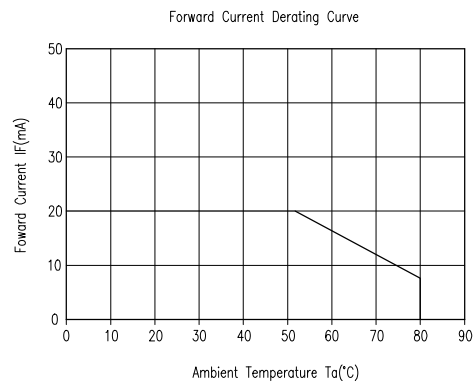
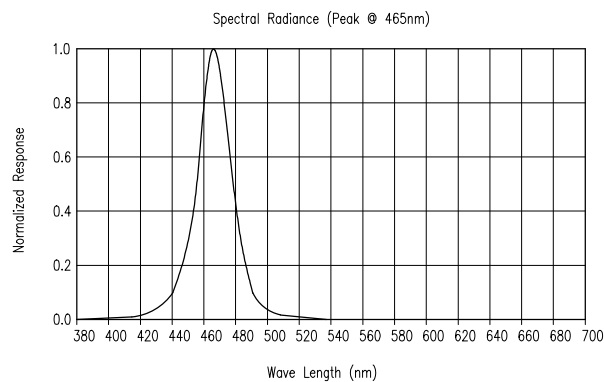
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PAGE:	1 OF 2	CHKD BY:	--
SCALE:		APRVD BY:	--
UNIT:	mm [INCH]		(P)

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5X4mm ELLIPTICAL SURFACE MOUNTED DOME LED, 470nm ULTRA SUPER BLUE LED, BLUE DIFFUSED.

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