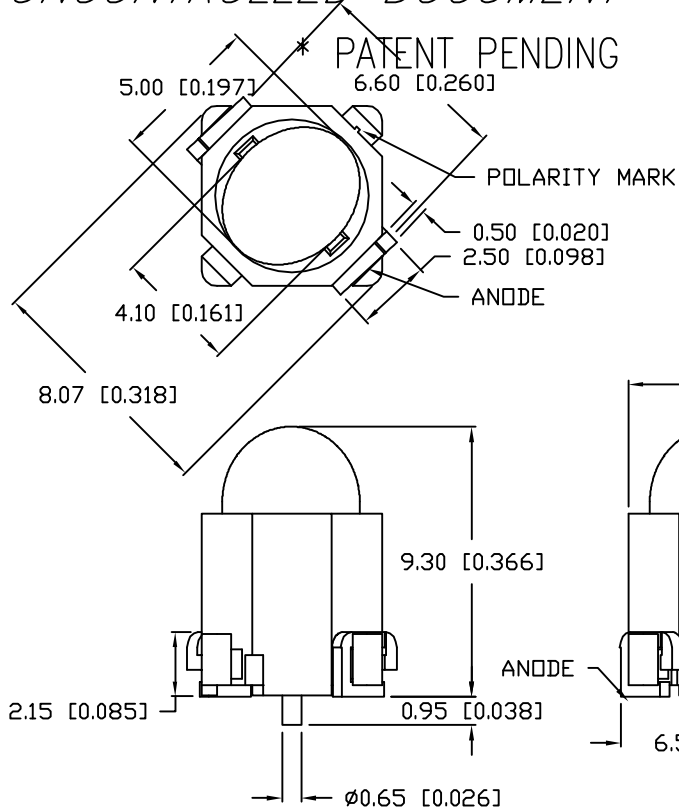
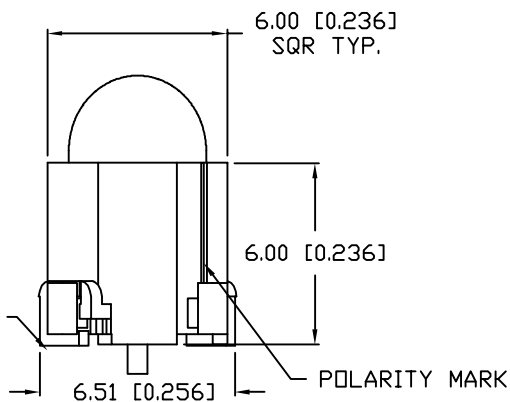


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CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.



PART NUMBER	REV.
SML-H150E5SID/NC	

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	
FORWARD VOLTAGE	1.9		2.5	$V_f$	
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:	RED				
EPOXY LENS FINISH:	RED DIFFUSED				

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$  PER DIE

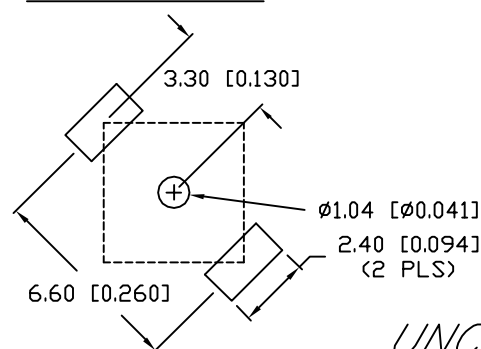
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT**	100	mA
STEADY CURRENT	35	mA
POWER DISSIPATION	90	mW
DERATE FROM $25^\circ\text{C}$	-1.2	$\text{mW}/^\circ\text{C}$
OPERATING TEMP.	-30 TO +80	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +100	$^\circ\text{C}$

\*\*1/10 DUTY CYCLE, 0.1ms PULSE WIDTH

\*AXIAL INTENSITY BINS

BIN	INTENSITY@20mA	
	MIN (mcd)	MAX (mcd)
2	2500	3440
3	3440	4550

RECOMMENDED PAD LAYOUT



## NOTES:

- PART USES ROUND REFLECTOR CUP WITH NO SILICONE ENDCAPSULATION OVER DICE.
- NO BIN CODE ON EACH BAG AS PARTS ARE MIXED BINS IN A BAG.



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\*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

REV.

PART NUMBER

SML-H150E5SID/NC

5X4mm ELLIPTICAL SURFACE MOUNTED DOME LED,  
635nm RED LED, RED DIFFUSED.

## 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.

**LUMEX**  
Creating LED and LCD Solutions Together™

290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

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