

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

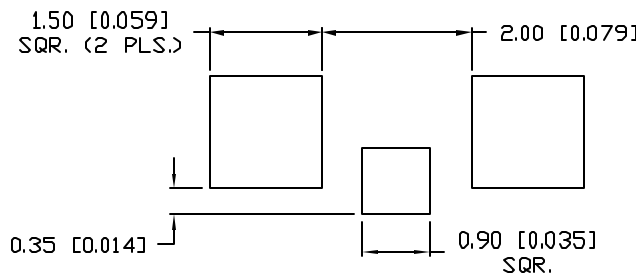
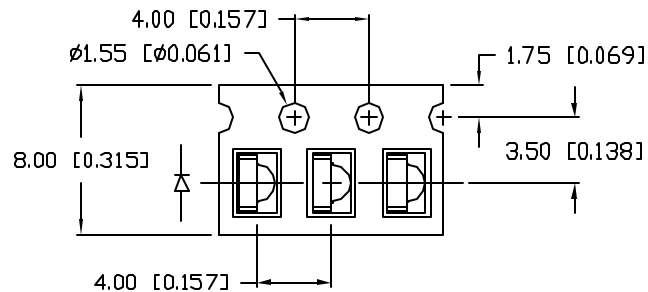
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		636 (RED)		nm	
		574 (GREEN)		nm	
FORWARD VOLTAGE (R/G)		2.0/2.2	2.6	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY (R/G)		30/15		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		120		$2x$ theta	
EMITTED COLOR:	RED/GREEN				
EPOXY LENS FINISH:	MILKY WHITE DIFFUSED				

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

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		160	mA
STEADY CURRENT	(R/G)	30/25	mA
POWER DISSIPATION		105	mW
DERATE FROM $25^\circ\text{C}$		-1.6	mW/ $^\circ\text{C}$
OPERATING TEMP.		-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.		-40 TO +85	$^\circ\text{C}$

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

RECOMMENDED SOLDER PAD LAYOUT



CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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-LXR851SISUGWTR

SURFACE MOUNT RIGHT ANGLE LED,  
636nm RED/574nm GREEN BICOLOR LED,  
MILKY WHITE DIFFUSED LENS.

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.



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