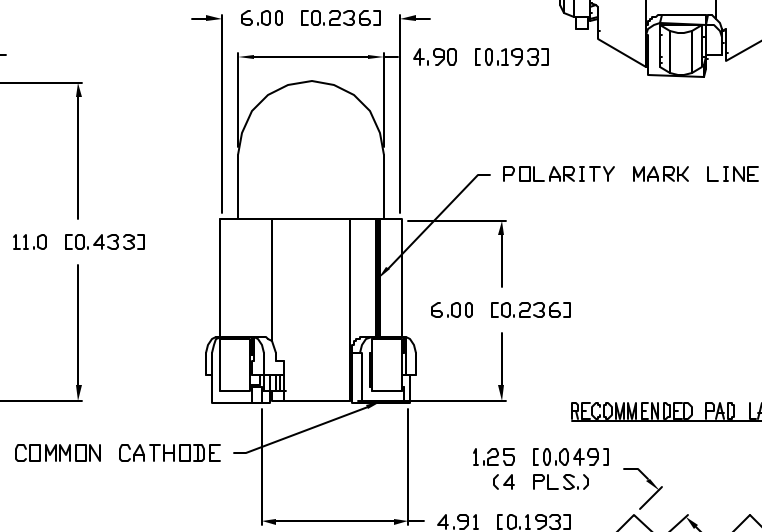
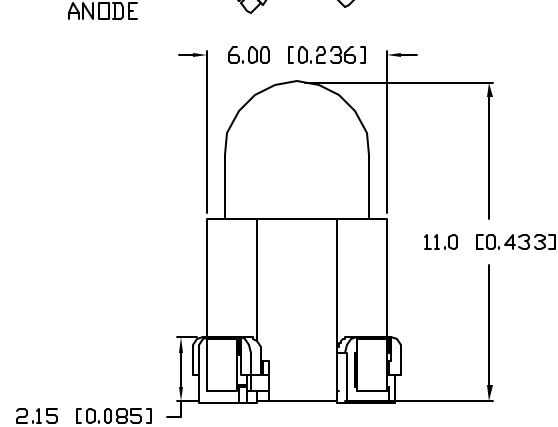
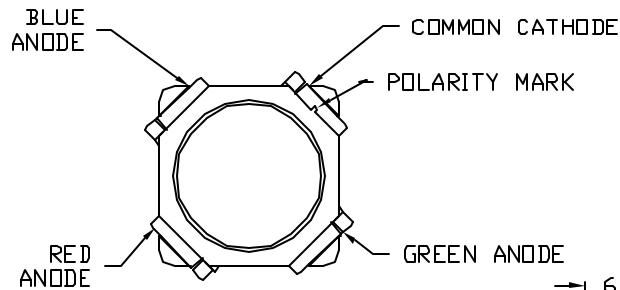
ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=20\text{mA}$

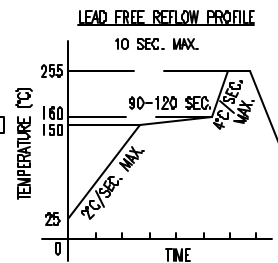
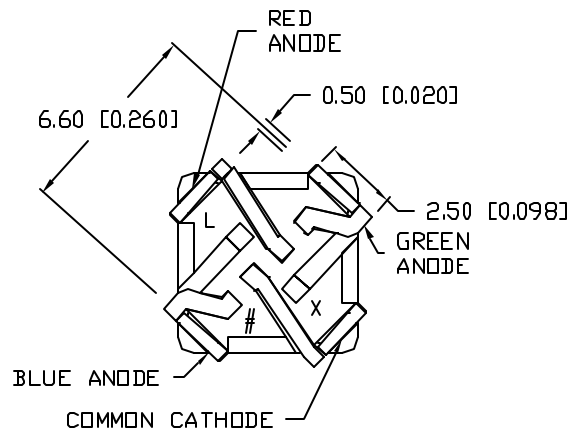
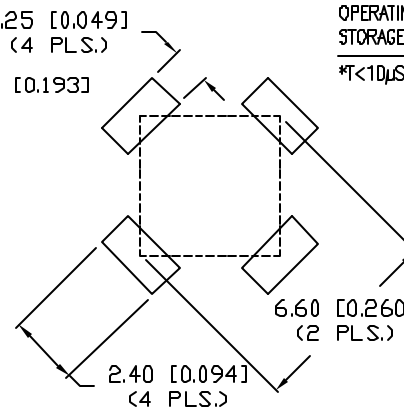
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635 (RED)		nm	
		465 (BLUE)		nm	
		520 (GREEN)		nm	
FORWARD VOLTAGE (R)		2.2	2.7	V _f	
(B)		3.4	4.0	V _f	
(G)		3.4	4.0	V _f	
REVERSE VOLTAGE		5.0		V _r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (R/B/G)		1100/600/2200		mod	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:		RED/BLUE/GREEN			
EPOXY LENS FINISH:		MILKY WHITE DIFFUSED.			

LIMITS OF SAFE OPERATION AT 25°C PERCHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	R/B/G	100	mA
STEADY CURRENT	R/B/G	30/20/20	mA
POWER DISSIPATION	R/B/G	95/80/80	mW
DERATE FROM 25°C		-1.2	mW/ $^{\circ}\text{C}$
OPERATING TEMP.		-30 TO +80	$^{\circ}\text{C}$
STORAGE TEMP.		-40 TO +100	$^{\circ}\text{C}$

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

RECOMMENDED PAD LAYOUT

TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.
ESD CLASSIFICATION: CLASS I BASED ON MIL-STD 883C

Pb

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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-HL505SIUPGUSBW

5mm SURFACE MOUNT DOMED LED,
RED/GREEN/BLUE 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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JC

PAGE: 1 OF 1

SCALE: N/A