

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=2\text{mA}$

PARAMETER	RED	GREEN	BLUE	UNITS	TEST COND
PEAK WAVELENGTH	632	518	465	nm	
FORWARD VOLTAGE MIN	1.75	2.75	2.60	$V_f$	
FORWARD VOLTAGE MAX	2.15	2.95	2.85	$V_f$	
REVERSE CURRENT MAX	10	50	50	$\mu\text{A}$	$V_r = 5\text{V}$
AXIAL INTENSITY	30	40	20	mcd	$I_f = 2\text{mA}$
VIEWING ANGLE	120	120	120	$2x$ theta	
EMITTED COLOR:	RED/GREEN/BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

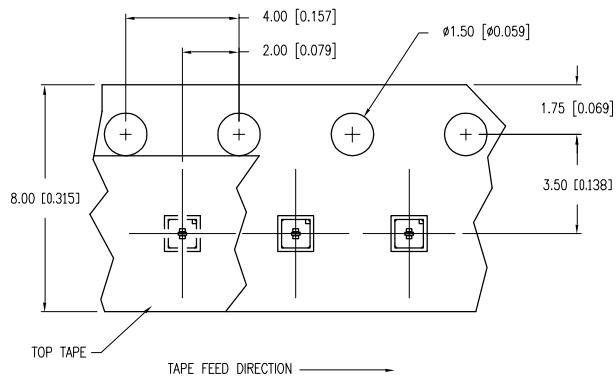
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT* (R/G/B)	60/100/20	mA
STEADY CURRENT (R/G/B)	30/25/10	mA
POWER DISSIPATION (R/G/B)	60/95/30	mW
DERATE FROM 25°C	- 1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

\*DUTY 1/10 @ 1KHz

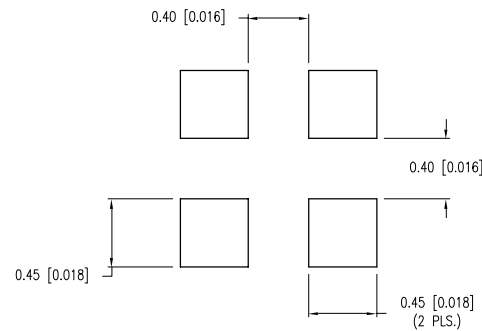
NOTES:

1. THE ANODE IS ORIENTED AWAY FROM THE TAPE SPROCKET HOLE.

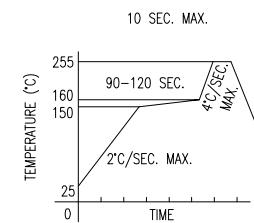
CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS



RECOMMENDED SOLDER PAD LAYOUT



LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

\*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 UNCONTROLLED DOCUMENT



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1.0mm x 1.0mm P.C.B. SML, FULL COLOR, WATER CLEAR LENS, TAPE AND REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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DATE: 06.02.10	DRAWN BY: JH
PAGE: 1 OF 1	CHKD BY: KF
SCALE: N/A	APRVD BY: JD
UNIT: mm [INCH]	(R)

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