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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH (R/G/B)		650/518/468		nm	
FORWARD VOLTAGE (R/G/B)		2.0/3.5/3.5	2.4/4.3/4.3	$V_f$	$I_f=100\mu\text{A}$
REVERSE VOLTAGE		5.0		$V_r$	$I_f=20\text{mA}$
AXIAL INTENSITY (R/G/B)		60/220/115		mcd	
VIEWING ANGLE		120		$2\times\theta$	
EMITTED COLOR:	RED/GREEN/BLUE				
EPOXY LENS FINISH:	WATER CLEAR LENS				

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

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	60/100/100	mA
STEADY CURRENT	(R/G/B)	25/30/30	mA
POWER DISSIPATION	(R/G/B)	60/130/130	mW
OPERATING TEMP.		-40 TO +85	$^{\circ}\text{C}$
STORAGE TEMP.		-40 TO +90	$^{\circ}\text{C}$

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

## NOTES:

1. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

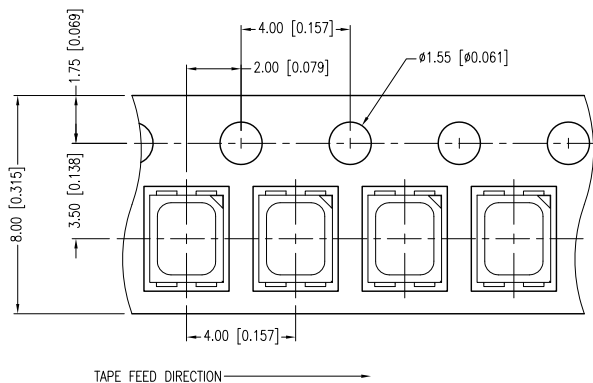
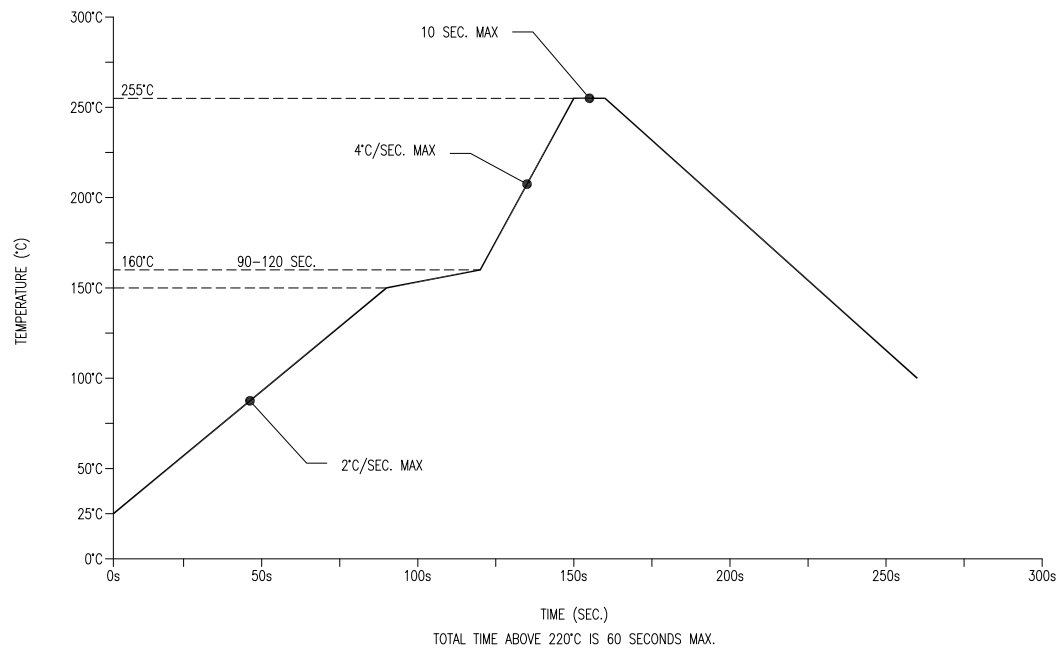
CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS

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

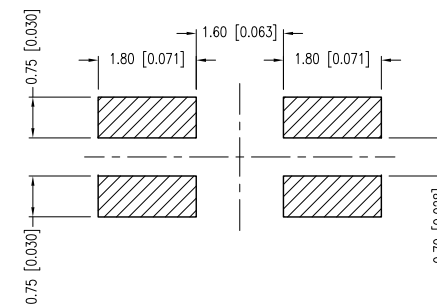
\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X= $\pm 1$  ( $\pm 0.039$ ), X.X= $\pm 0.5$  ( $\pm 0.020$ ), X.XX= $\pm 0.25$  ( $\pm 0.010$ ), X.XXX= $\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ). MIN=  $^{+0.000}_{-0.000}$  DECIMAL PRECISION MAX=  $^{+0.000}_{-0.000}$  DECIMAL PRECISION

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LEAD FREE REFLOW PROFILE



RECOMMENDED SOLDER 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= <sup>+DECIMAL PRECISION</sup> <sub>-0.00</sub> MAX.= <sup>+0.00</sup> <sub>-DECIMAL PRECISION</sub>

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