

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

PARAMETER	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH (R/G/B)	660/585/590		nm	
FORWARD VOLTAGE (R/G/B)	1.7/2.2/2.0	2.2/2.6/2.8	$V_f$	
REVERSE VOLTAGE (R/G/B)	4.0/5.0/5.0		$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY (R/G/B)	110/30/80		mcd	$I_f=20\text{mA}$
VIEWING ANGLE	120		$2x$ theta	
EMITTED COLOR:	RED/GREEN/YELLOW			
EPOXY LENS FINISH:	WATER CLEAR LENS			

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

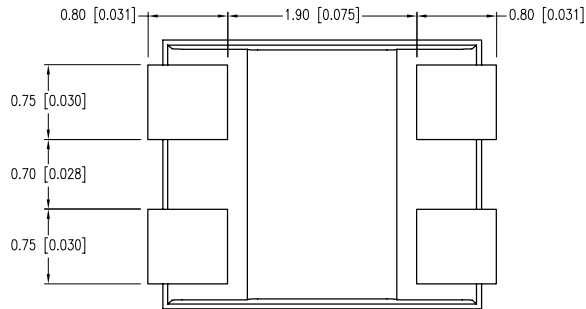
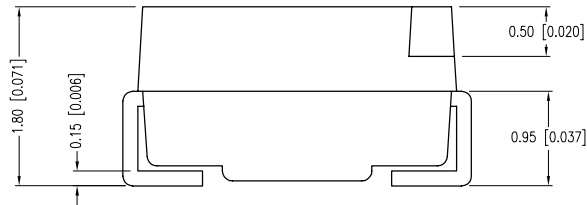
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT* (R/G/Y)	200/160/160	mA
STEADY CURRENT (R/G/Y)	30/25/30	mA
POWER DISSIPATION (R/G/Y)	110/100/100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY		3 SEC. MAX

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

NOTES:

1. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. 2,000 PER REEL.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 2 STANDARDS



\*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 UNCONTROLLED DOCUMENT

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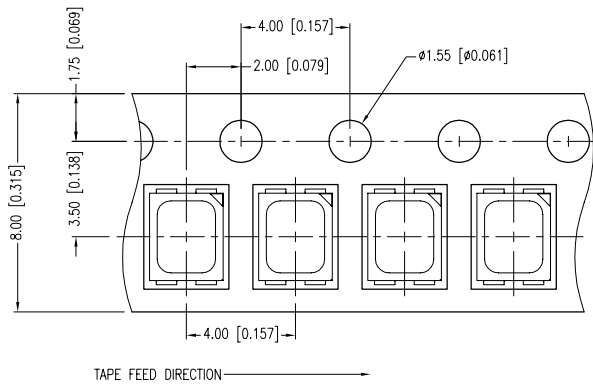
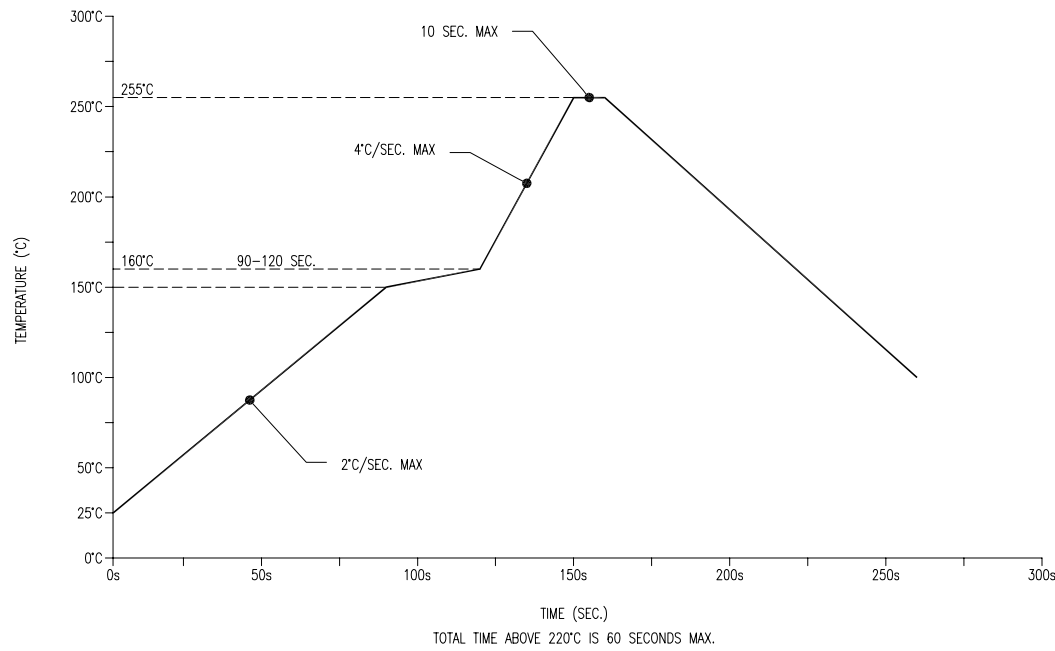
2.8mm x 3.2mm SML /W REFLECTOR CUP, DUAL CHIP, 660nm/565nm/590nm LED, WATER CLEAR LENS, 2k

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

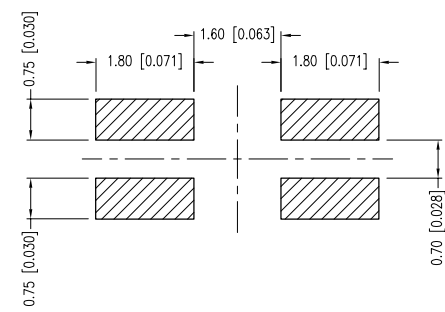
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PAGE:	1 OF 2	CHKD BY:	KF
SCALE:	NTS	APRVD BY:	JD
UNIT:	mm [INCH]		Ⓟ

LEAD FREE REFLOW PROFILE



RECOMMENDED SOLDER PAD LAYOUT



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