

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
FORWARD VOLTAGE	$V_f$		3.2	3.3	V	
REVERSE VOLTAGE	$V_r$	5.0			V	$I_f=100\mu\text{A}$
LUMINOUS FLUX*	$\Phi_v$	16.7	17.3	17.8	lm	
COLOR TEMPERATURE		5700	5900	6100	K	
VIEWING ANGLE			120		$2 \times \theta_{\text{theta}}$	
EMITTED COLOR:	COOL WHITE					
LENS FINISH:	WATER CLEAR					

\*LUMINOUS FLUX TESTING CONDITION 550nm WAVELENGTH.

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	80	mA
POWER DISSIPATION	315	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-30 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

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

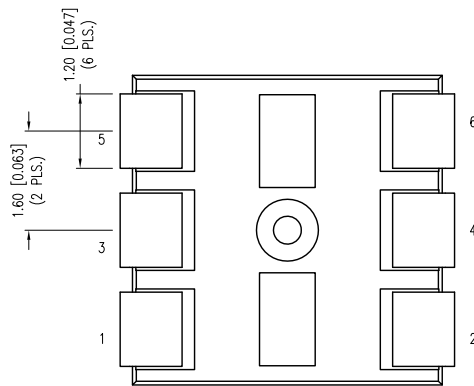
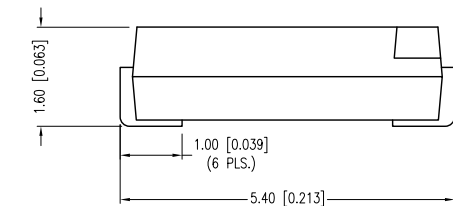
ZENER DIODE

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
REVERSE LEAKAGE CURRENT			0.5	$\mu\text{A}$	$V_r=5\text{V}$
ZENER VOLTAGE	5.8	6.3	6.8	V	$I_z=5\text{mA}$
FORWARD VOLTAGE			1.2	V	$I_f=20\text{mA}$

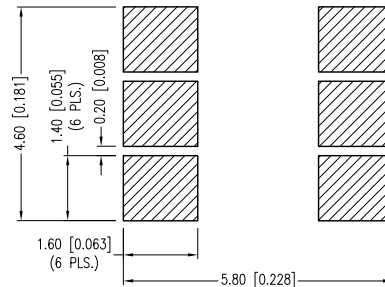
COLOR	CIE-X	CIE-Y
COOL WHITE	0.4478	0.4072
	0.4333	0.4029
	0.4260	0.3868
	0.4395	0.3912

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.



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>

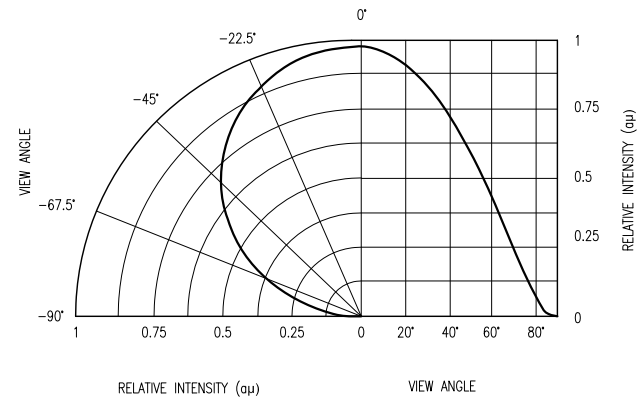
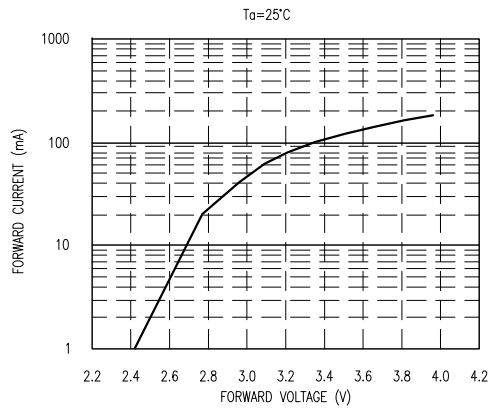
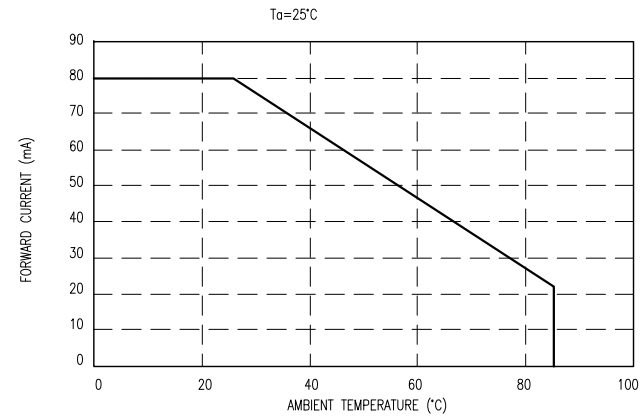
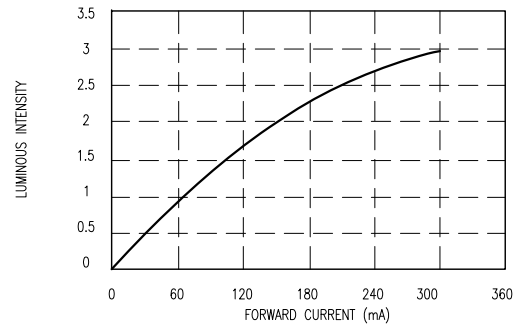
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5.0x5.0mm SML W/REFLECTOR, WHITE, WATER CLEAR, TAPE & REEL.

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

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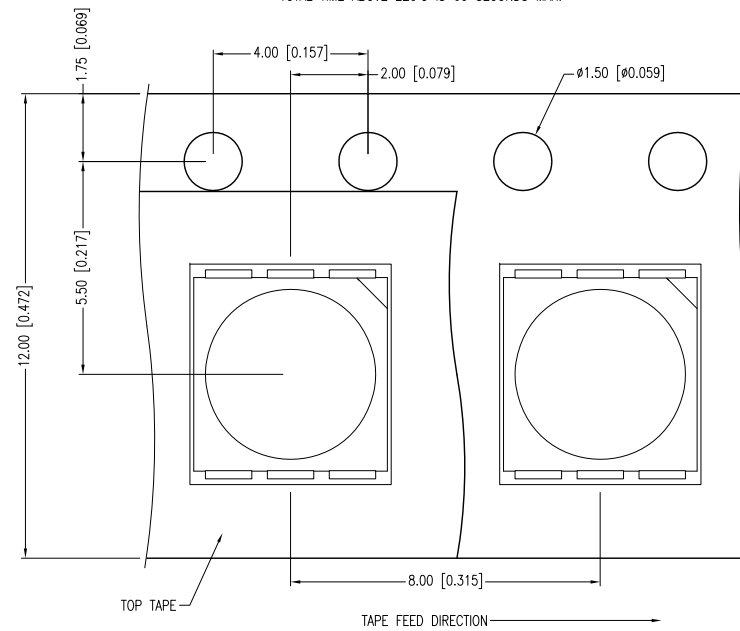
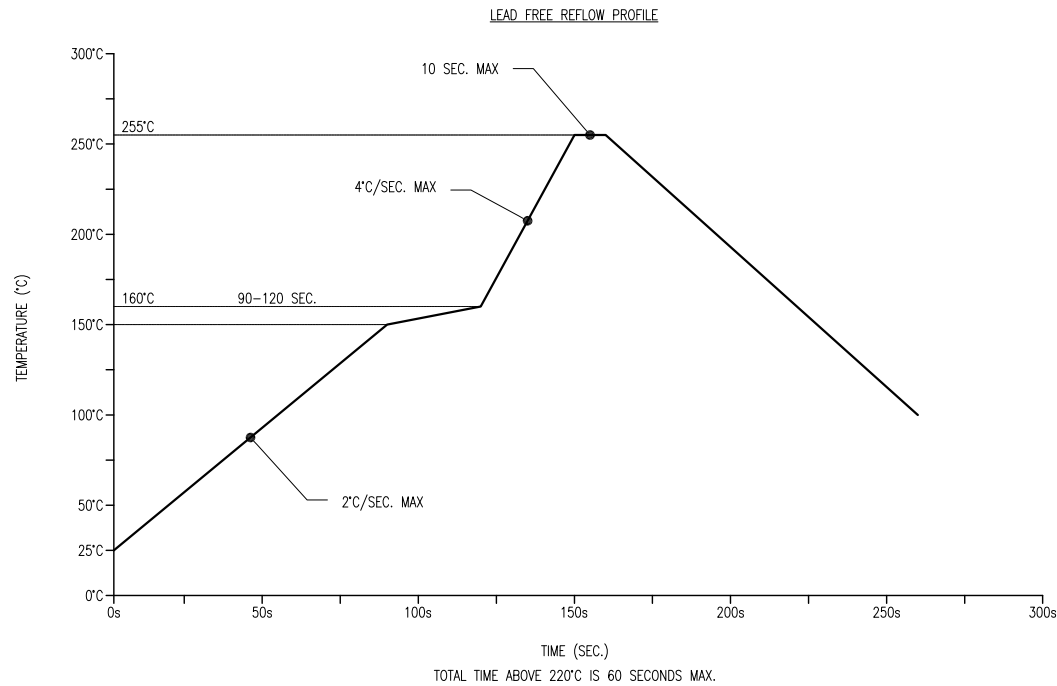
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NOTES:

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

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