

CML LED COLOR CODE	
A	AMBER
CL	CLEAR
R	RED
Y	YELLOW
B	BLUE
G	GREEN
D	DIFFUSED
N	NON DIFFUSED

PERFORM SOLDERING AT THE FOLLOWING CONDITIONS:
 SOLDER DIP: 260°C FOR 5 SEC. OR LESS
 SOLDER REFLOW: PREHEATING 120°C FOR 2 MIN. OR LESS
 REFLOW 240°C FOR 5 SEC. OR LESS
 SOLDERING IRON: 300°C FOR 5 SEC. OR LESS

IDI PART NUMBER				
	7012X13	7012X5	7012X1	7012X7
SPECIFICATIONS				
SOURCE COLOR	Y	G	R	YG
LENS COLOR	C			
DIFFUSED-NONDIFFUSED	D			

ABSOLUTE MAXIMUM RATINGS @ 25°C				SYMBOLS	UNITS
POWER DISSIPATION	62.5	62.5	50	62.5	Pd mW
FORWARD CURRENT	25	25	25	25	I _F mA
PEAK FORWARD CURRENT	60	60	60	60	I _{FM} mA
REVERSE VOLTAGE	4	4	4	4	V _R V
OPERATING TEMP.	-40 TO +85				T _{opr} °C
STORAGE TEMP.	-40 TO +90				T _{stg} °C

ELECTRO-OPTICAL CHARACTERISTICS				SYMBOLS	UNITS		
FORWARD VOLTAGE	TYP (I _F =20 mA)	2.2	2.1	1.7	2.1	V _F	V
	MAX	2.5	2.5	2.0	2.5		
REVERSE CURRENT	TYP	V _R = 4 V				I _R	μA
	MAX	100	100	100	100		
LUMINOUS INTENSITY	MIN (I _F =20 mA)	2.2	3.8	7.0	7.0	I _v	ncd
	TYP	3.7	6.4	11.7	11.7		
PEAK WAVE LENGTH	TYP (I _F =20 mA)	580	580	660	570	λ _P	nm
	MAX						
SPECTRAL LINE HALF WIDTH	TYP (I _F =20 mA)	30	30	30	30	Δλ	nm

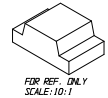
NOTES:
 1. 1 nsec PULSE, DUTY CYCLE 1/20 MAX.
 2. ALL DIMENSIONS ARE IN INCHES (MM).

Ⓢ FOR INSPECTION USE ONLY
 Ⓧ SPC DOCUMENTATION REQ. (X R CHARTS) **DO NOT SCALE** DIST. V/S

PART NO.	SEE TABLE	TITLE	OUTLINE DRAWING FOR 7012X SERIES SMT LED
MODEL NO.			
MOLD NO.			
MATERIAL:		CHICAGO MINIATURE LAMP INC. 147 CENTRAL AVE. HACKENSACK, NJ 07601	
FINISH:			
TOLERANCE UNLESS OTHERWISE SPECIFIED:		DRAWN JEANNETTE R.	SCALE: 20/1
DECIMAL: .xxx +/- .008		CHECKED	B12526
MILLIMETER: +/- 0.2		ENG. APPRV	
ANGLE: 1/2 deg.			REV E

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REV	ECR NO.	DATE
A	11018 NEW RELEASE	12/15/94
B	11120 MV	1/17/95
C	12603 FR CHANGED TEMP RANGE	1-3-96
D	17225 KB CHANGED PACKAGE	12/3/98
E	19099 MP ADDED TAPE & REEL	4/12/00



FOR REF. ONLY
 SCALE: 10:1

