

GMDA1G7A12		GMDA1A7A12		GMDA1D7A12		SPECIFICATIONS ( $T_o=25^{\circ}C$ )		UNITS
G	Y	Y	R	Y	R	Y	OUTPUT COLOR	
N	N	N	N	N	N	N	DIFFUSED/NON-DIFFUSED	
C	C	C	C	C	C	C	PACKAGE COLOR	
20	20	20	20	20	20	20	RATED CURRENT	mA
2.1	2.2	2.1	1.7	2.1	1.7	1.7	FORWARD VOLTAGE TYP	V
2.5	2.5	2.5	2.0	2.5	2.0	2.0	FORWARD VOLTAGE MAX	V
100	100	100	100	100	100	100	REVERSE CURRENT MAX	$\mu A$
4	4	4	4	4	4	4	REVERSE VOLTAGE MAX ( $I_r=100\mu A$ )	V
6.0	3.0	12.0	12.0	12.0	12.0	12.0	LUMINOUS INTENSITY MIN	mcd
12.0	6.0	24.0	33.6	24.0	33.6	33.6	LUMINOUS INTENSITY TYP	mcd
560	580	570	660	570	660	660	WAVELENGTH PEAK TYP	nm
567		572	647	572	647	647	DOMINANT WAVELENGTH	nm
75	75	75	60	75	60	60	POWER DISSIPATION MAX	mW
30	30	30	30	30	30	30	FORWARD CURRENT MAX	mA
70	70	70	70	70	70	70	PEAK FORWARD CURRENT MAX(NOTE 2)	mA
30	30	30	30	30	30	30	SPECTRAL LINE HALF WIDTH TYP	nm
70	70	70	70	70	70	70	VIEWING ANGLE	DEG
	-30 + 85						OPERATING TEMPERATURE	$^{\circ}C$
	-40 + 100						STORAGE TEMPERATURE	$^{\circ}C$
	3.0						RANK A LUMINOUS INTENSITY	MIN
	6.0						RANK A LUMINOUS INTENSITY	MAX
	4.2						RANK B LUMINOUS INTENSITY	MIN
	8.4						RANK B LUMINOUS INTENSITY	MAX
6.0	6.0	12.0	12.0	12.0	12.0	12.0	RANK C LUMINOUS INTENSITY	MIN
12.0	12.0	24.0	24.0	24.0	24.0	24.0	RANK C LUMINOUS INTENSITY	MAX
8.5	8.4	16.8	16.8	16.8	16.8	16.8	RANK D LUMINOUS INTENSITY	MIN
17.0	16.8	33.6	33.6	33.6	33.6	33.6	RANK D LUMINOUS INTENSITY	MAX
12.0	12.0	24.0	24.0	24.0	24.0	24.0	RANK E LUMINOUS INTENSITY	MIN
24.0		48.0	48.0	48.0	48.0	48.0	RANK E LUMINOUS INTENSITY	MAX
17.0		33.6	33.6	33.6	33.6	33.6	RANK F LUMINOUS INTENSITY	MIN
34.0		67.2	67.2	67.2	67.2	67.2	RANK F LUMINOUS INTENSITY	MAX
24.0		48.0	48.0	48.0	48.0	48.0	RANK G LUMINOUS INTENSITY	MIN
							RANK G LUMINOUS INTENSITY	MAX

REV	ECR NO	DESCRIPTION	DATE
A	20318	NEW RELEASE	
B	20628	REMOVED VENDOR No'S.	6/25/01

NOTES:

- ALL DIMENSIONS ARE IN MM
- PULSE WIDTH  $\leq 1\text{msec}$ , DUTY  $\leq 1/20$   
DERATE LINEARLY FROM  $25^{\circ}C$   
0.42mA/ $^{\circ}C$ (DC) 0.93mA/ $^{\circ}C$ (PULSE)
- QUANTITY ON TAPE-2500 PCS/REEL
- COVER TAPE ADHESIVE STRENGTH SHALL BE 30-60g  
(ANGLE BETWEEN CARRIER TAPE AND COVER TAPE SHALL BE  $10^{\circ}$ )
- THE TAPE SHALL BE SO SEALED THAT THE CONTAINED DEVICES WILL NOT COME OUT FROM THE TAPE WHEN IT IS BENT AT A RADIUS OF 15mm  
NAME OF CHICAGO MINIATURE LAMP INC. PART NUMBERS AND QUANTITY SHALL BE STATED ON THE BOX OR BAG. THERE SHALL BE NO REVERSED-ORIENTATION, NO UPSIDE DOWN PLACING, AND NO SIDE PLACING

SHIPPING INFORMATION

- LED'S SHALL BE SORTED INTO FIVE RANKS OF LUMINOUS INTENSITY
- RANK MARKING SHALL BE INDICATED IN THE SPACE OF LOT NO. ON THE PRODUCT LABEL.
- EACH SHIPPING LOT SHALL CONSIST OF MIXED RANKS AND THE QUANTITY OF EACH CAN NOT BE SPECIFIED

FOR INSPECTION USE ONLY

(X) SPC DOCUMENTATION REQ. (X R CHARTS)

DRAWN BY	DATE	PART NO.
R. HANES	4/16/01	
CHECKED BY	DATE	MODEL NO.
ENG. APPROV.	DATE	MOLD NO.
UNLESS OTHERWISE SPECIFIED TOLERANCES ON:		
.XX $\pm$ .05		
.XX $\pm$ .25		
ANGLE $\pm$ 1 $^{\circ}$		

CHICAGO MINIATURE LAMP, INC.  
147 CENTRAL AVE. HACKENSACK, NJ 07601

TITLE: SURFACE MOUNT LED-RIGHT ANGLE

DIST. v/s DWG NO B17147

SCALE: NTS SHEET 2 OF 2

REV B

SDRC FILE NAME: B17147

CML LED COLOR CODE

- A-AMBER
- O-ORANGE
- C-CLEAR
- R-RED
- Y-YELLOW
- G-GREEN
- GY-GREEN/YELLOW
- D-DIFFUSED
- N-NON-DIFFUSED

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