LED LAMP ARRAYS

T-41-31

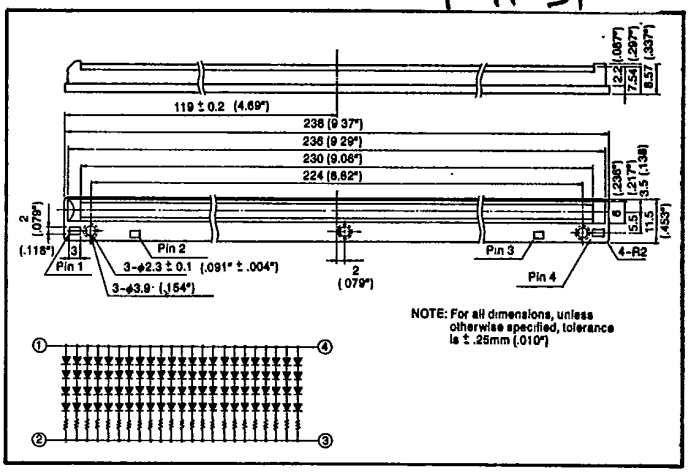
MTG10A

APPLICATIONS

- COPIER
- SCANNERS
- FLORESCENT LAMP REPLACEMENT

FEATURES

- Fast response time.
- Low power consumption.
- Available in GaAlAs 660nm ultra red.
- Available in illuminating lengths of 64mm to 303mm.



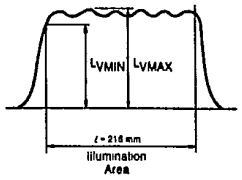
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{DD}	13.2	V
Reverse Voltage	V_R	16	V
Operating Temperature	T_{opr}	-20 ~ 70	°C
Storage Temperature	T_{stg}	-20 ~ 80	°C

OPTO-ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Current	I_{DD}	V_{DD}=12V	—	380	500	mA
Reverse Current	I_R	V_R=16V	—	—	100	μA
Peak Luminousity	L_{VP}	V_{DD}=12V, r=13.54mm	1000	1500	—	ℓx
Illumination Matching	L_{VM}	ℓ= 216mm	—	± 12	± 20	%
Converging Half Band Width	ΔL	V_{DD}=12V	—	1.7	—	mm
Peak Light Emission Wave Length	λP	V_{DD}=12V	—	567	—	nm
Spectral Half Band Width	Δλ	V_{DD}=12V	—	25	—	nm

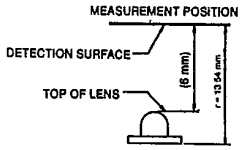
PEAK ILLUMINATION, ILLUMINATION MATCHING



$$*L_{VP} = \frac{1}{n}\sum_{i=1}^{n} L_{VPi}$$
(n: measuring points)

$$*L_{VM} \begin{cases} \frac{L_{VPi\,MAX} - L_{VP}}{L_{VP}} \times 100 \\ \frac{L_{VPi\,MIN} - L_{VP}}{L_{VP}} \times 100 \end{cases}$$

PEAK INTENSITY, DISTRIBUTION OF INTENSITY



PEAK ILLUMINATION, CONDENSING HALF WIDTH

