

LED LAMP ARRAYS

MTG10A

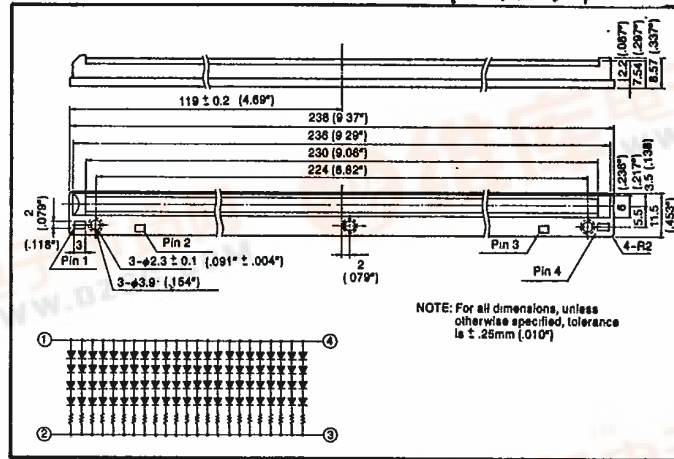
T-41.31

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.



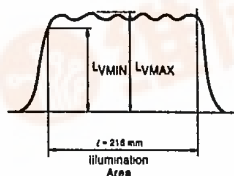
MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{DD}	13.2	V
Reverse Voltage	V_R	16	V
Operating Temperature	T_{opr}	$-20 \sim 70$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-20 \sim 80$	$^\circ\text{C}$

OPTO-ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

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

PEAK ILLUMINATION, ILLUMINATION MATCHING

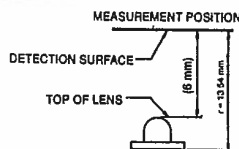


$$L_{VP} = \frac{1}{n} \sum_{i=1}^n L_{VPi}$$

(n: measuring points)

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

PEAK INTENSITY, DISTRIBUTION OF INTENSITY



PEAK ILLUMINATION, CONDENSING HALF WIDTH

