

LED DISPLAY

TLR372, TLR373 TLG372, TLG373

- PRELIMINARY -

• 5 x 7 DOT MATRIX LED DISPLAY

- 6.0 mm high character. (0.24 inch)
- High efficiency at lower current. (Light emitting's materials: GaP)
- X-Y matrix connection. (Multiplex drive)
- 36 light emitting diodes including decimal point.
- Capable of displaying full ASCII characters.
- Pin for pin compatibility with MAN2A, DL-57.
- Application Keyboard verifier, Computer peripheral display, Information display.

Refer to page 153 for the figure.

MAXIMUM RATING (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current (Note 1)	I_{FP}/Dot	30	mA
Reverse Voltage	V_R	6	V
Storage Temperature Range	T_{stg}	-30 ~ 100	°C
Operating Temperature Range	T_{opr}	-30 ~ 85	°C

Note 1. Duty Ratio = 1/7, Pulse width = 1 (ms)

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTICS		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage		V_F	$I_{FP} = 20 \text{ mA}$	1.8	2.15	2.75	V
Reverse Current		I_R	$V_R = 6 \text{ V}$	-	-	5	μA
Luminous Intensity	Red	I_{V1}/Dot	$I_{FP} = 20 \text{ mA}$ Duty Ratio = 1/7	-	0.045	-	mcd
	Green	I_{V2}/Dot		-	0.14	-	mcd
Luminous Intensity Matching		I_{V-M}	$I_{FP} = 20 \text{ mA}$, Duty Ratio = 1/7	-	-	2.0	-
Peak Emission Wave length	Red	λ_{p1}	$I_F = 10 \text{ mA}$	-	700	-	nm
	Green	λ_{p2}		-	565	-	nm
Spectral Line Half Width	Red	$\Delta\lambda_1$	$I_F = 10 \text{ mA}$	-	100	-	nm
	Green	$\Delta\lambda_2$		-	25	-	nm
Thermal luminous Intensity		ΔI_V	-	-	-1.0	-	%/°C
Thermal Resistance		R_{thj-a}/Dot	-	-	6.3	-	°C/mW



