

TLR2098A, TLR4093A TLR2248, TLR4243

RED COLOR 4 DIGITS LED DISPLAY

- For Duplex drive connections and available both polarity common anode or common cathode.
- 15 mm (0.6") character Height, each segment represents diffused and Uniformly display.
- Outer color filter provides high contrast, practical brightness are obtained at about 20mA (with 50 per cent duty ratio) per segments.
- Arrow edge shape of each segment represents not mosaic but look like Arabic numerals.
- Selectable both type 12 or 24 hours of display.

TYPE NO. VS. DISPLAY FONT

COMMON ANODE	COMMON CATHODE	FULLY DISPLAY FONT
TLR2098A	TLR2248	: 10 : 00 .
TLR4093A	TLR4243	: 00 : 00 .

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current (Note 1)	$I_F(\text{Pulse})/\text{Seg}$	30	mA
Reverse Voltage	V_R	3	V
Storage Temperature Range	T_{stg}	-20~75	°C
Operating Temperature Range	T_{opr}	-20~60	°C
Soldering Temperature (Note 2)	T_{solder}	260	°C

Note 1: Duty ratio = 1/2
 2: Within 3 seconds at 2 mm from the reflector edge

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F=20\text{mA}$	1.8	2.15	2.75	V
Reverse Current	I_R	$V_R=3\text{V}$	-	-	5	μA
Luminous Intensity/Seg.	$I_V/\text{Seg.}$	$I_F=10\text{mA}$	0.1	0.2	-	mcd
Luminous Intensity Matching Ratio	I_V-M	$I_F=5\text{mA}$	-	-	2.5	-
Peak Emission Wave Length	λ_p	$I_F=10\text{mA}$	-	700	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_F=10\text{mA}$	-	100	-	nm

Refer to page 249 for the figure.

