

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17261 DT-41-33

## TLR2198, TLR4192, TLR2268, TLR4262

## RED COLOR 4 DIGITS LED DISPLAY

- For Duplex Drive connection 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 20 mA (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
TLG2198	TLG2268	: 18 : 88 .
TLG4192	TLG4262	: 28 : 88 .

## MAXIMUM RATINGS (Ta = 25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current (Note 1)	$I_p(\text{Pulse})/\text{Seg}$	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 second at 2 mm from the reflector edge.

Refer to page 260 for the figure.

## 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	$\mu\text{A}$
Luminous Intensity/Seg.	$I_v/\text{Seg}$	$I_f=10\text{mA}$	0.1	0.2	-	mcd
Luminous Intensity Matching Ratio	$I_v\text{-M}$	$I_f=5\text{mA}$	-	-	2.5	-
Peak Emission Wave Length	$\lambda_p$	$I_f=10\text{mA}$	-	700	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_f=10\text{mA}$	-	100	-	nm

