

TLR2399, TLR4393, TLR2369, TLR4363

RED COLOR 4 DIGITS LED DISPLAY

- For Duplex Drive connection
- 18 mm (0.7") 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
TLR2399	TLR2369	: 18 : 88 :
TLR4393	TLR4363	: 28 : 88 :

Refer to page 283 for the figure.

MAXIMUM RATINGS (Ta = 25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current/Seg. (Note 1)	I_F (Pulse)/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	T_{solder}	260	°C

Note 1: Duty ratio = 1/2
 2: Within 3 second 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	$I_F = 20$ mA	1.8	2.15	2.75	V
Reverse Current	I_R	$V_R = 3$ V	-	-	5	μA
Luminous Intensity/Seg.	I_V /Seg	$I_F = 10$ mA	0.15	0.3	-	mcd
Luminous Intensity Matching Ratio	I_V -M	$I_F = 5$ mA	-	-	2.5	-
Peak Emission Wave Length	λ_p	$I_F = 10$ mA	-	700	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_F = 10$ mA	-	100	-	nm

