

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17253

D T-41-33

## TLR2110, TLR4115, TLR2120, TLR4125

## RED COLOR 4 DIGITS LED DISPLAY

- Red Color, 7.6mm Character Height and Pin Connections for Multiplex Drive
- Even Digit Space
- Suitable for the Followings
  - Car Clock Display
  - Radio Frequency Display
  - Tape Counter Display of Recorder
- Selectable Both Types of Connection, Common Anode and Common Cathode
- Selectable Both Format of Clock Display, 12 or 24 Hours

## TYPE NO. VS DISPLAYED FONT

COMMON ANODE	COMMON CATHODE	FULLY DISPLAY FONT
TLR2110	TLR2120	: 1.0.0.0°
TLR4115	TLR4125	: 0.0.0.0°

## MAXIMUM RATINGS (Ta = 25°C)

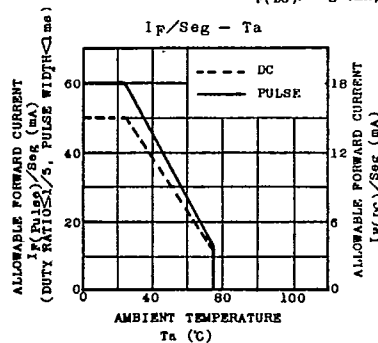
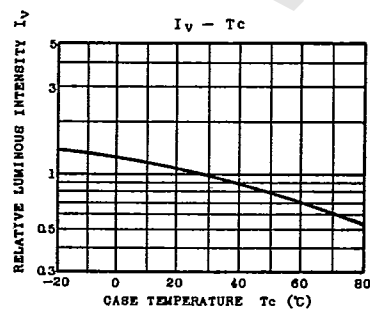
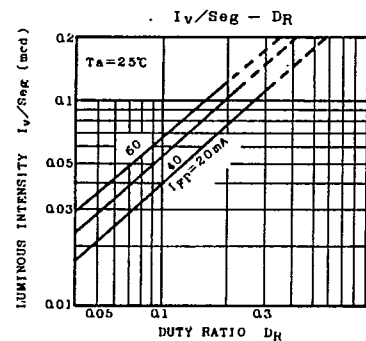
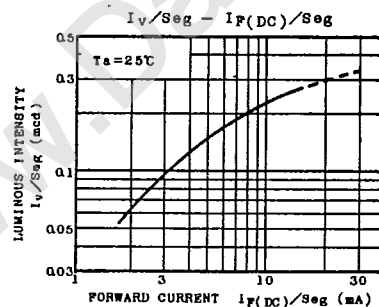
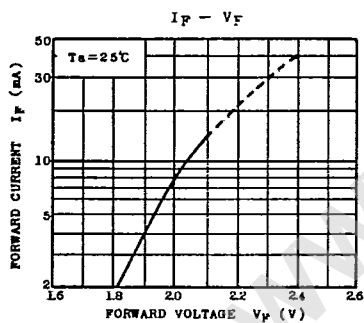
CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Forward Current/Segment	$I_F(\text{DC})/\text{Seg}$	15	mA
Pulse Forward Current/Seg. (Note)	$I_F(\text{Pulse})/\text{Seg}$	60	mA
Reverse Voltage	$V_R$	6	V
Operating Temperature Range	$T_{\text{opr}}$	-30 ~ 75	°C
Storage Temperature Range	$T_{\text{stg}}$	-30 ~ 90	°C

Note : Pulse Width=1ms, Duty Ratio=1/5

Refer to page 252 for the figure.

## ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F=40\text{mA}$	2.0	2.5	3.0	V
Reverse Current	$I_R$	$V_R=6\text{V}$	-	-	5	$\mu\text{A}$
Luminous Intensity/Segment	$I_V/\text{Seg}$	$I_F=40\text{mA}$ , Duty Ratio=1/5	0.04	0.10	-	mcd
Luminous Intensity Matching Ratio	$I_V-M$	$I_F=40\text{mA}$ , Duty Ratio=1/12	-	-	2.5	-
Peak Emission Wave Length	$\lambda_p$	$I_F=40\text{mA}$ , Duty Ratio=1/5	-	700	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_F=40\text{mA}$ , Duty Ratio=1/5	-	100	-	nm



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