

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17247 DT-41-33

TLR2057A, TLR4052A TLR2087A, TLR4082A

RED COLOR 4 DIGITS LED DISPLAY

- For Use of static drive connections and available both polarity common anode or common cathode.
- 23 mm (0.9") character height, each segment is diffused and uniformly display.
- Outer color filter provides high contrast, complete practical Use at 7 mA 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	FULLY DISPLAY FONT	COMMON CATHODE
TLR2057A	• 10:00.	TLR2087A
TLR4052A	• 00:00.	TLR4082A

Refer to page 246 for the figure.

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current/Seg.	$I_F(\text{DC})/\text{Seg}$	15	mA
Reverse Voltage	V_R	3	V
Storage Temperature Range	T_{stg}	$-20 \sim 75$	$^\circ\text{C}$
Operating Temperature Range	T_{opr}	$-20 \sim 60$	$^\circ\text{C}$
Soldering Temperature (Note)	T_{solder}	260	$^\circ\text{C}$

Note: Within 3 Seconds at 2 mm from the Reflector Edge.

ELECTRICAL - OPTICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 10\text{mA}$	1.7	2.0	2.5	V
Reverse Current	I_R	$V_R = 3\text{V}$	-	-	5	μA
Luminous Intensity/Seg.	I_v/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

