

LNP193024

Pandel Display Units

RG Type

■ Structure

- Illumination color: Red, Green, Amber (Red and Green lighting)
- Display surface: 192 mm × 96 mm
- Number of dots (dot): 1 152 (48 × 24 dot)
- Dot size: 3.2 mm × 2.5 mm, Dome type chip LED
- Dot pitch: 4.0 mm

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Operating supply voltage	V_{CC}	-0.3 to +5.5	V
LED operating supply voltage	V_{LEDA}	Max. +5.5	V
Input voltage	V_{IN}	-0.3 to $V_{CC} + 0.3$	V
Operating ambient temperature	T_{opr}	-10 to +45	°C
Storage temperature	T_{stg}	-25 to +80	°C

■ Recommending Operating Conditions $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Min	Typ	Max	Unit
Operating supply voltage	V_{CC}	4.75	5.00	5.25	V
LED operating supply voltage	V_{LEDA}	4.80	5.00	5.20	V
Input voltage	V_{IN}	0.00	—	V_{CC}	V

■ Electro-Optical Characteristics $T_a = 25^\circ\text{C}$, $V_{CC} = V_{LEDA} = 5.0\text{ V}$

Parameter	Symbol	Specification		Unit
		Red	Green	
Brightness	—	Typ. 250		cd/m ²
			Typ. 200	cd/m ²
Drive system	—	Duty 1/24 Dynamic lighting		—
Clock frequency	f_{CLK}	Max. 10		MHz
Supply current (Logic) *	$I_{CC(Logic)}$	Max. 0.1		A
Supply current (LED) *	$I_{CC(LED)}$	Max. 7.0		A

Note) *: Two-color all lighting

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