High Reliability 0.56-inch Dual-Digit 7-Segment Numeric LED Displays

SND-620 SND-627

GENERAL DESCRIPTION

The SND-620 and the SND-627 series are high performance epoxy resin molded dual-digit 7-segment LED displays of which character height is 0.56-inch (14.1mm). These series provide excellent readability in bright ambients and available in red, orange and yellow-green emitting colors.

The standard unit is constructed with black face and milky white segment color.

PACKAGE DIMENSIONS

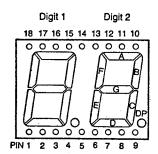
8.8.

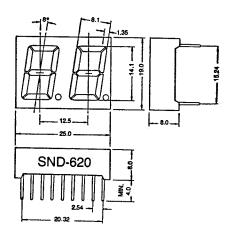
FEATURES

- 1. High brightness with high contrast
- 2. Uniform brightness and wide angle viewing
- 3. Low power consumption; Directly drive with I.C
- 4. Solid state reliability and long operation life
- 5. Cathode-common (SND620) and anode-common (SND627) types available

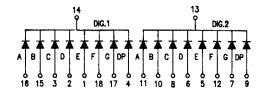
PIN ARRANGEMENT

(Top View)

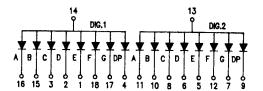




SCALE 1:1 (mm)



SND-620 (Cathode Common)



SND-627 (Anode Common)

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Red SND 620/627R (GaP)

Absolute Maximum Ratings (Ta=25°C)

Power dissipation/Total	640	mW
Power dissipation/Seg	40	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	4	٧
Operating temperature	-25~+85	°C
Storage temperature	-55~+100	°C

Electrical/Optical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Min	Тур	Max.	Unit
Forward voltage/Seg	VF	IF = 10mA		2.1	2.3	٧
Reverse current/Seg	İR	VR=4V	_	-	10	μΑ
Luminous intensity/digit	lv	IF = 10mA	200	700	. —	μcd
Peak wavelength	λР	IF = 10mA	_	700	_	nm
Spectral line halfwidth	Δλ	IF = 10mA	_	30	_	nm

Orange SND 620/627SR (GaAsP/GaP)

Absolute Maximum Ratings (Ta=25°C)

640	тW
40	mW
20	mA
60*	mA
4	٧
-25~+85	°C
-55~+100	°C
	40 20 60° 4 -25~+85

Electrical/Optical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Min	Тур	Max.	Unit
Forward voltage/Seg	VF	IF = 10mA	_	2.0	2.2	٧
Reverse current/Seg	IA	VR=4V	_	_	10	μА
Luminous Intensity/digit	lv	IF = 10mA	600	1300	_	μcd
Peak wavelength	λР	IF = 10mA	_	635	_	nm
Spectral line halfwidth	Δλ	IF = 10mA	_	35	_	nm

Yellow-green SND 620/627UG (GaP)

Absolute Maximum Ratings (Ta = 25°C)

640	mW
40	mW
20	mA
60*	mA
4	٧
-25~+85	°C
-55~+100	°C
	40 20 60° 4 -25~+85

Electrical/Optical Characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	Min	Тур	Max.	Unit
Forward voltage/Seg	VF	IF = 10mA	_	2.1	2.3	٧
Reverse current/Seg	la	VR = 4V	-	_	10	μΑ
Luminous intensity/digit	lv	IF = 10mA	600	1300	_	μcd
Peak wavelength	λР	IF = 10mA	_	565	_	nm
Spectral line halfwidth	Δλ	IF = 10mA		30	_	nm

Red SND 620/627UR (GaAlAs)

Absolute Maximum Ratings (Ta = 25°C)

640	mW
40	mW
20	mA
60*	mA
4	٧
-25~+85	°C
-55~+100	°C
	40 20 60° 4 -25~+85

* Pulse Width 1 ms Duty Cycle 1/5

Electrical/Optical Characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	Min	Тур	Max.	Unit
Forward voltage/Seg	VF	IF = 10mA	_	1.85	2.1	٧
Reverse current/Seg	la la	VR = 4V		_	10	μA
Luminous intensity/digit	lv	IF = 10mA	1800	3000		μcd
Peak wavelength	λР	IF = 10mA		660	_	nm
Spectral line halfwidth	Δλ	IF = 10mA		20		nm