

High Reliability 1.5-inch Dual-Digits 7-Segment Numeric LED Displays

SND-1520 SND-1527

GENERAL DESCRIPTION

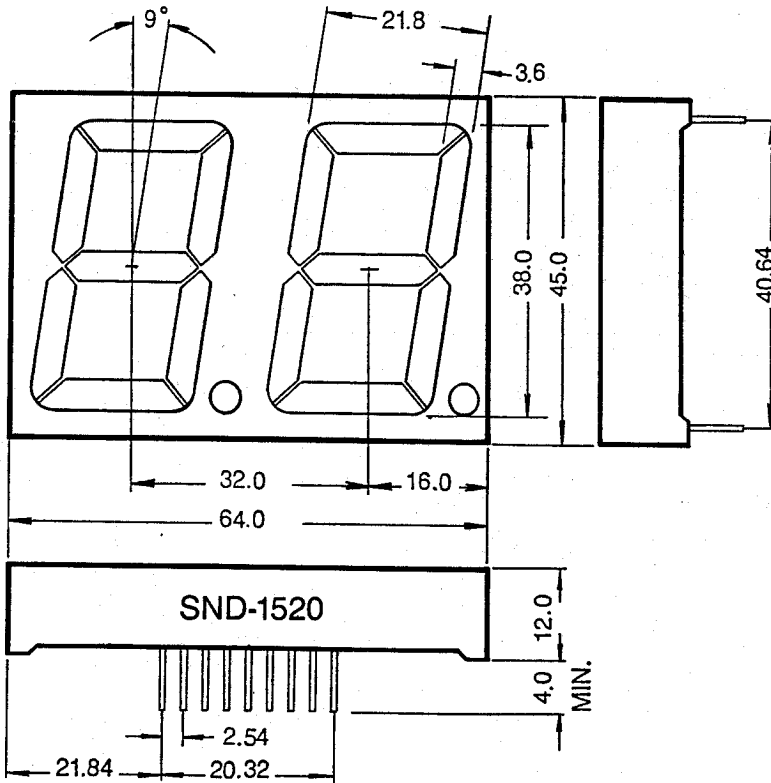
The SND-1520 and the SND-1527 series are high performance epoxy resin molded dual-digits 7-segment LED displays of which character height is 1.5 inch (38.0mm) and there is a choice of three emitting colors; red, orange and yellow-green.

FEATURES

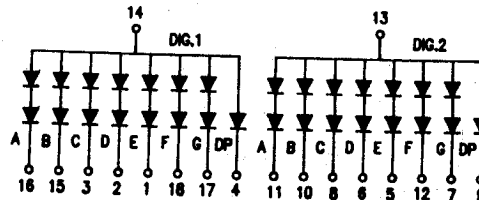
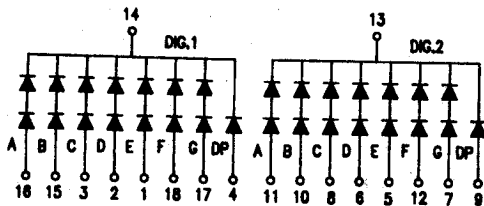
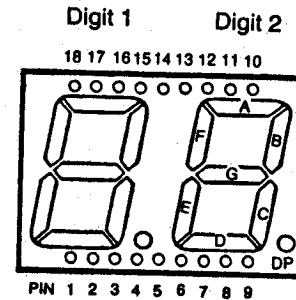
1. High brightness with high contrast
2. Uniform brightness and wide angle viewing
3. Low power consumption
4. Solid state stability and long operation life
5. Cathode-common (SND-1520) and anode-common (SND-1527) types available

PACKAGE DIMENSIONS

SCALE 1:1 (mm)



PIN ARRANGEMENT (Top View)



三光半導体株式会社
SAM KWANG SEMICONDUCTOR CO., LTD.

803 Silla Techno Vil., 39-3 Dang-dong Kunpo-City Kyungki-do, Korea,
TEL:031-456-1444/1484, FAX:031-456-4224

Red SND 1520/1527UR (GaAlAs)
Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	1200	mW
Power dissipation/Seg	80	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	10	V
Operating temperature	-25 ~ +85	°C
Storage temperature	-55 ~ +100	°C

Electrical/Optical Characteristics (T_a=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V _F	I _F = 15mA	—	3.8	4.0	V
Reverse current/Seg	I _R	V _R = 10V	—	—	10	μA
Luminous intensity/digit	I _v	I _F = 15mA	450	1500	—	μcd
Peak wavelength	λ _P	I _F = 15mA	—	660	—	nm
Spectral line halfwidth	Δλ	I _F = 15mA	—	20	—	nm

Orange SND 1520/1527SR (GaAsP/GaP)
Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	1200	mW
Power dissipation/Seg	80	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	10	V
Operating temperature	-25 ~ +85	°C
Storage temperature	-55 ~ +100	°C

Electrical/Optical Characteristics (T_a=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V _F	I _F = 15mA	—	4.2	4.4	V
Reverse current/Seg	I _R	V _R = 10V	—	—	10	μA
Luminous intensity/digit	I _v	I _F = 15mA	300	800	—	μcd
Peak wavelength	λ _P	I _F = 15mA	—	635	—	nm
Spectral line halfwidth	Δλ	I _F = 15mA	—	35	—	nm

Yellow-green SND 1520/1527UG (GaP)
Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	1200	mW
Power dissipation/Seg	80	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	10	V
Operating temperature	-25 ~ +85	°C
Storage temperature	-55 ~ +100	°C

Electrical/Optical Characteristics (T_a=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V _F	I _F = 15mA	—	4.3	4.6	V
Reverse current/Seg	I _R	V _R = 10V	—	—	10	μA
Luminous intensity/digit	I _v	I _F = 15mA	350	1000	—	μcd
Peak wavelength	λ _P	I _F = 15mA	—	565	—	nm
Spectral line halfwidth	Δλ	I _F = 15mA	—	30	—	nm

* Pulse Width 1 ms
 Duty Cycle 1/5

