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

SND-1530
SND-1537

GENERAL DESCRIPTION

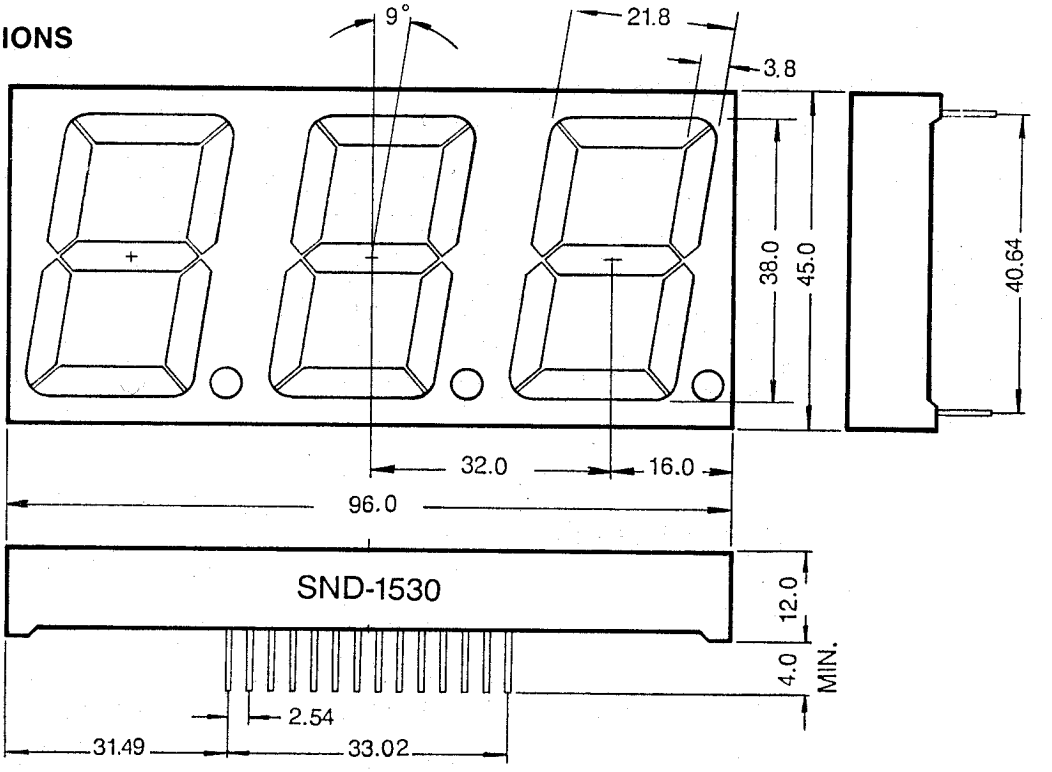
The SND-1530 and the SND-1537 series are high performance epoxy resin molded triple-digit 7-segment LED displays of which character height is 1.5 in(38.0 mm) and there is a choice of three emitting colors; red, orange and yellow-green.

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-1530) and anode-common (SND-1537) types available

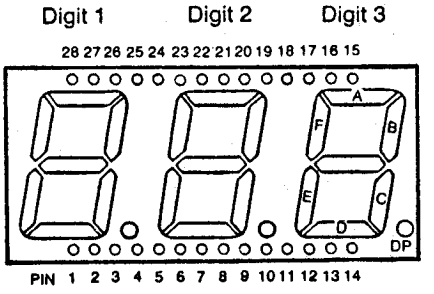
PACKAGE DIMENSIONS

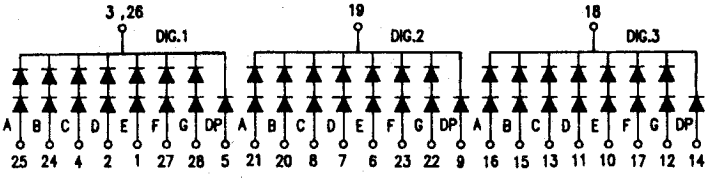
SCALE 1:1 (mm)



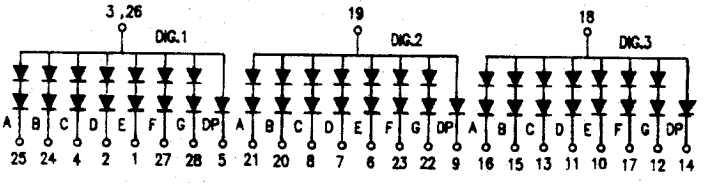
PIN CONNECTIONS

(Top View)





SND-1530 (Cathode Common)



SND-1537 (Anode Common)

三光半導体株式會社
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 1530/1537UR (GaAlAs)

Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	1800	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	Iv	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 1530/1537SR (GaAsP/GaP)

Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	1800	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	Iv	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 1530/1537UG (GaP)

Absolute Maximum Ratings (T_a=25°C)

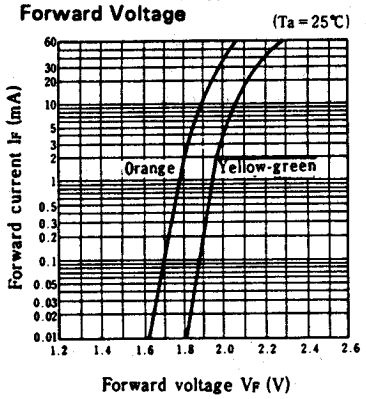
Power dissipation/Total	1800	mW
Power dissipation/Seg	80	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	10	V
Operating temperature	−25 ~ +85	°C
Storage temperature	−55 ~ +100	°C

Electrical/Optical Characteristics (T_a=25°C)

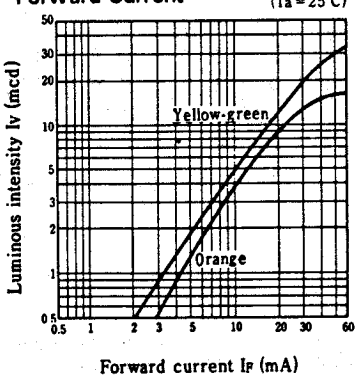
Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V_F	I_F = 15mA	—	4.3	4.6	V
Reverse current/Seg	I_R	V_R = 10V	—	—	10	μA
Luminous intensity/digit	Iv	I_F = 15mA	350	1000	—	μcd
Peak wavelength	λ_P	I_F = 15mA	—	565	—	nm
Spectral line halfwidth	Δλ	I_F = 15mA	—	30	—	nm

* Pulse Width ..... 1 ms
Duty Cycle 1/5

Forward Current vs. Forward Voltage (Ta = 25°C)



Luminous Intensity vs. Forward Current (Ta = 25°C)



Spectrum Distribution (Ta = 25°C)