

# High Reliability 0.315-inch (8.0mm) 5-Digits 7-Segment Numeric Displays

# SND-350B SND-357B

## GENERAL DESCRIPTION

The SND-350B and the SND-357B series are high performance epoxy resin molded 5-digit 7-segment LED displays for an application which space is at a premium. The character height is approximately 0.315-inch (8.0mm) and available in red, green, orange and yellow-green emitting colors.  
The standard unit is constructed with black face and milky white segment color.

## PACKAGE DIMENSIONS

Actual size

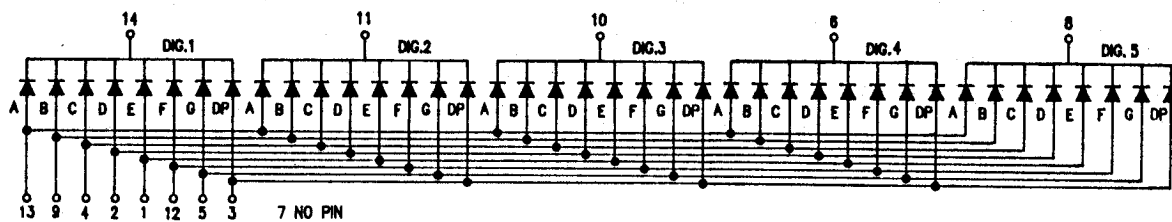
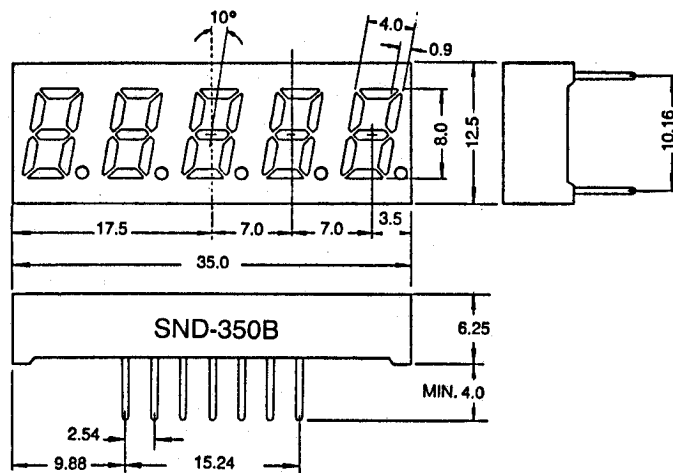
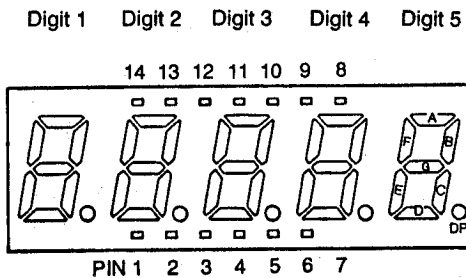


## FEATURES

1. High brightness and high contrast
2. Low power consumption; Directly drive with I.C
3. Wide angle viewing
4. Solid state reliability; Long operation life
5. Cathode-common (SND-350B) and anode-common (SND-357B) types available

## PIN ARRANGEMENT

(Top View)



SND-350B (Cathode Common)

SND-357B (Anode Common)    All diodes are reversed polarity

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### Red SND 350B/357BR (GaP)

Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Power dissipation/Total	1600	mW
Power dissipation/Seg	40	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	-25 ~ +85	°C
Storage temperature	-55 ~ +100	°C

Electrical/Optical Characteristics (T<sub>a</sub> = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V <sub>F</sub>	I <sub>F</sub> = 10mA	—	2.1	2.3	V
Reverse current/Seg	I <sub>R</sub>	V <sub>R</sub> = 4V	—	—	10	μA
Luminous intensity/digit	I <sub>v</sub>	I <sub>F</sub> = 10mA	300	800	—	μcd
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> = 10mA	—	700	—	nm
Spectral line halfwidth	Δλ	I <sub>F</sub> = 10mA	—	100	—	nm

### Green SND 350B/357BG (GaP)

Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Power dissipation/Total	1600	mW
Power dissipation/Seg	40	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	-25 ~ +85	°C
Storage temperature	-55 ~ +100	°C

Electrical/Optical Characteristics (T<sub>a</sub> = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V <sub>F</sub>	I <sub>F</sub> = 10mA	—	2.1	2.3	V
Reverse current/Seg	I <sub>R</sub>	V <sub>R</sub> = 4V	—	—	10	μA
Luminous intensity/digit	I <sub>v</sub>	I <sub>F</sub> = 10mA	350	900	—	μcd
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> = 10mA	—	555	—	nm
Spectral line halfwidth	Δλ	I <sub>F</sub> = 10mA	—	30	—	nm

### Orange SND 350B/357BSR (GaAsP/GaP)

Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Power dissipation/Total	1600	mW
Power dissipation/Seg	40	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	-25 ~ +85	°C
Storage temperature	-55 ~ +100	°C

Electrical/Optical Characteristics (T<sub>a</sub> = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V <sub>F</sub>	I <sub>F</sub> = 10mA	—	2.0	2.2	V
Reverse current/Seg	I <sub>R</sub>	V <sub>R</sub> = 4V	—	—	10	μA
Luminous intensity/digit	I <sub>v</sub>	I <sub>F</sub> = 10mA	700	1500	—	μcd
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> = 10mA	—	635	—	nm
Spectral line halfwidth	Δλ	I <sub>F</sub> = 10mA	—	35	—	nm

### Yellow-green SND 350B/357BUG (GaP)

Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Power dissipation/Total	1600	mW
Power dissipation/Seg	40	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	-25 ~ +85	°C
Storage temperature	-55 ~ +100	°C

Electrical/Optical Characteristics (T<sub>a</sub> = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V <sub>F</sub>	I <sub>F</sub> = 10mA	—	2.1	2.3	V
Reverse current/Seg	I <sub>R</sub>	V <sub>R</sub> = 4V	—	—	10	μA
Luminous intensity/digit	I <sub>v</sub>	I <sub>F</sub> = 10mA	600	1500	—	μcd
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> = 10mA	—	565	—	nm
Spectral line halfwidth	Δλ	I <sub>F</sub> = 10mA	—	30	—	nm

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