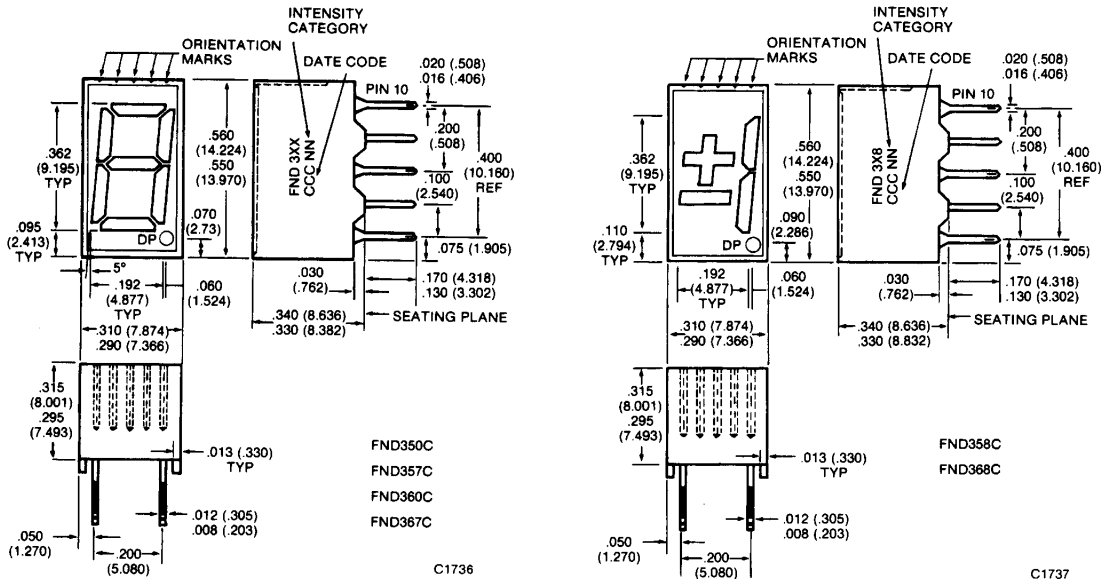




0.362-INCH SEVEN SEGMENT DISPLAYS

RED FND350C FND357C FND358C HI-BRITE RED FND360C FND367C FND368C

PACKAGE DIMENSIONS



- NOTES:
1. ALL DIMENSIONS ARE IN MM (INCH)
 2. TOLERANCES ARE ± 0.010 INCH UNLESS OTHERWISE SPECIFIED

DESCRIPTION

The FND35XC are red GaAsP/GaAs displays and FND36XC are hi-brite GaP/GaP displays. Both series are of nominal size of 0.362" in digit height and are of right hand decimal configuration.

FEATURES

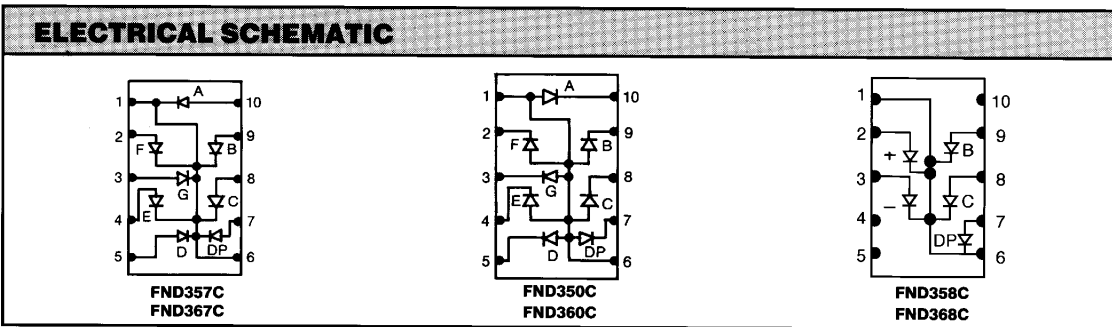
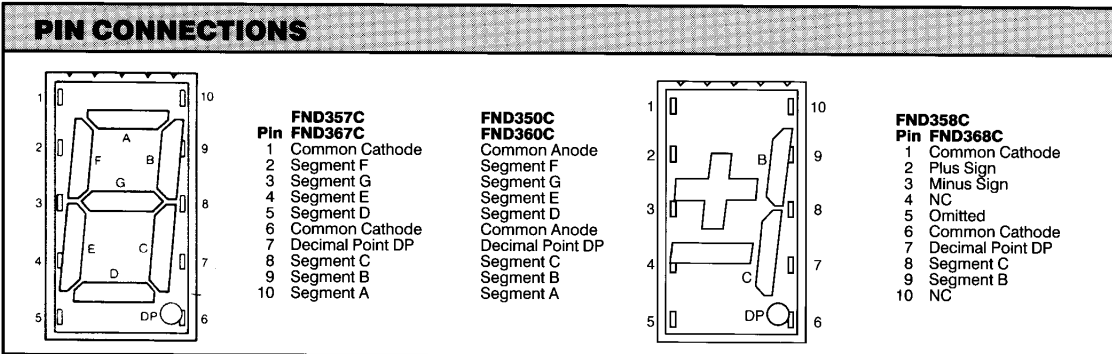
- Exactly pin and package compatible with FND3XX.
- Compact—10 digits in 3 inch panel width
- Right hand decimal configuration
- Wide viewing angle
- Categorized for luminous intensity
- Rugged encapsulated plastic construction

MODEL NUMBERS

| PART NUMBER | COLOR | DESCRIPTION |
|-------------|--------------|---|
| FND350C | Red | Common anode seven segment display |
| FND357C | Red | Common cathode seven segment display |
| FND358C | Red | Common cathode ± 1 overflow display |
| FND360C | Hi-brite Red | Common anode seven segment display |
| FND367C | Hi-brite Red | Common cathode seven segment display |
| FND368C | Hi-brite Red | Common cathode ± 1 overflow display |

| ABSOLUTE MAXIMUM RATINGS | | | | |
|---|----------------------------|----------------|----------------------------|----------------|
| | FND350C FND357C | FND358C | FND360C FND367C | FND368C |
| Power dissipation at 25°C ambient | 400 mW | 250 mW | 320 mW | 200mW |
| Continuous forward current | 200 mA | 125 mA | 200 mA | 125 mA |
| Per segment or decimal point | 25 mA | 25 mA | 25 mA | 25 mA |
| Reverse voltage | 6 V | 6 V | 6 V | 6 V |
| Per segment or decimal point | | -25° to +85°C | | |
| Storage and operating temperature | | | | |
| Soldering time at 250°C | | | | 3 sec |
| (1/16 inch from the seating plane) | | | | |

| ELECTRO-OPTICAL CHARACTERISTICS (T _A =25°C Unless Otherwise Specified) | | | | | |
|--|------|------|------|-------|------------------------|
| Parameter | MIN. | TYP. | MAX. | UNITS | TEST CONDITIONS |
| Forward voltage - V (per diode) | | | | | |
| FND35XC | | 1.7 | 2.0 | V | I _F =20 mA |
| FND36XC | | 2.1 | 2.6 | V | I _F =20 mA |
| Luminous intensity - I _v | | | | | |
| FND35XC | 240 | 450 | | ucd | I _F =20 mA |
| FND36XC | 240 | 450 | | ucd | I _F =20 mA |
| Peak wavelength | | | | | |
| FND35XC | | 655 | | nm | I _F =20 mA |
| FND36XC | | 655 | | nm | I _F =20 mA |
| Reverse voltage - V _R | 5 | | | V | I _R =100 μA |
| Capacitance - C (per diode) | | 23 | | pF | V=0, F=1 MHz |



TYPICAL ELECTRO - OPTICAL CHARACTERISTIC CURVES

($T_A = 25^\circ\text{C}$ Unless Otherwise Specified)

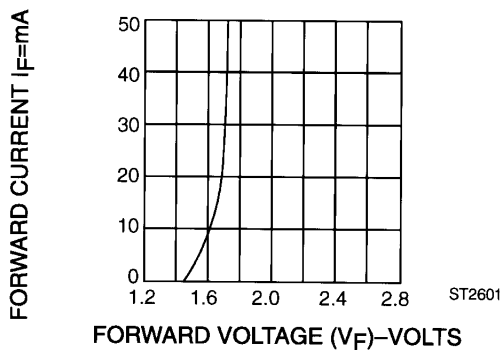


Fig. 1 Forward Current vs. Forward Voltage

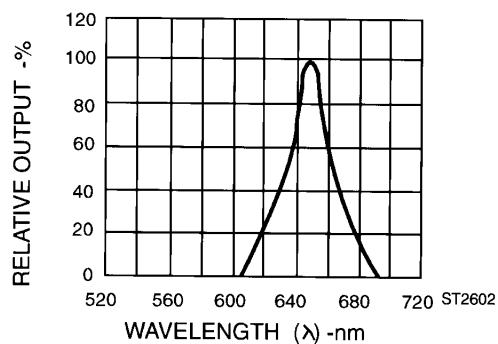


Fig. 2 Spectral Response

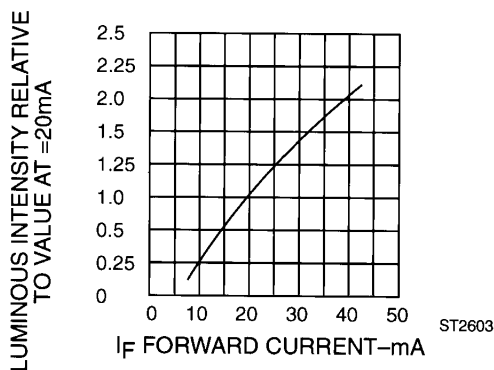


Fig. 3 Relative Luminous Intensity vs. Forward Current

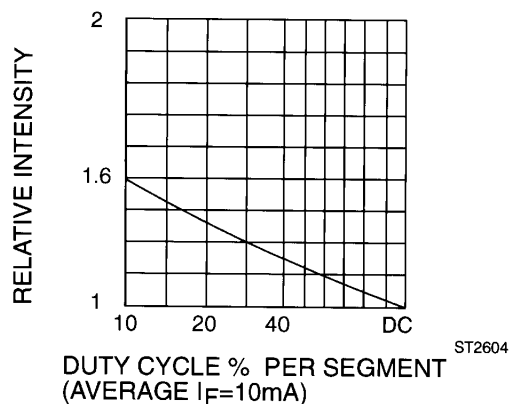


Fig. 5 Luminous Intensity vs. Duty Cycle

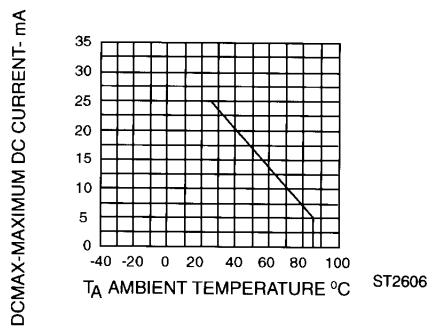


Fig. 4 Maximum Allowable DC Current Per Segment vs. A Function Of Ambient Temperature

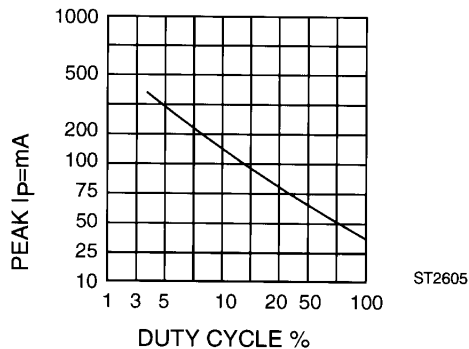


Fig. 6 Max Peak Current vs. Duty Cycle % (Refresh Rate $f = 1\text{ KHz}$)

TYPICAL ELECTRO - OPTICAL CHARACTERISTIC CURVES

($T_A=25^\circ\text{C}$ Unless otherwise specified)

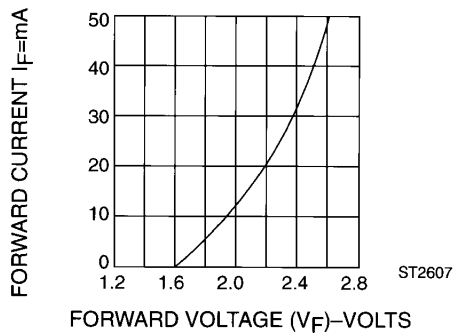


Fig. 1 Forward Current vs. Forward Voltage

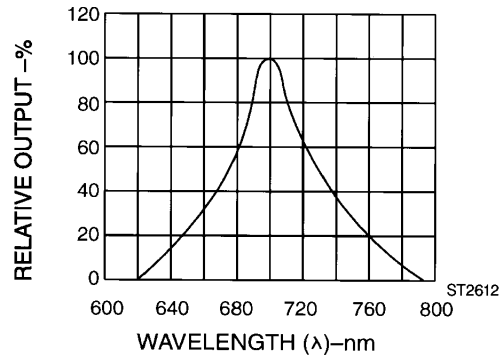


Fig. 2. Spectral Response

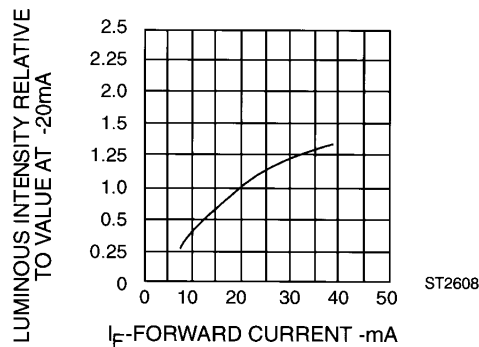


Fig. 3 Relative Luminous Intensity vs. Forward Current

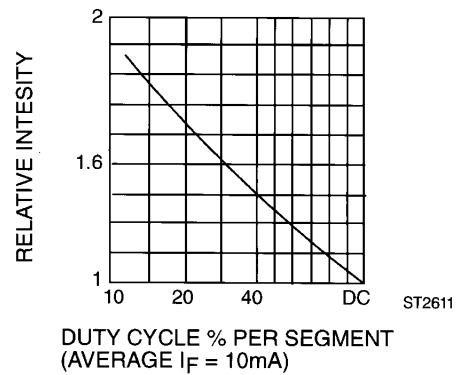


Fig. 5 Luminous Intensity vs. Duty Cycle

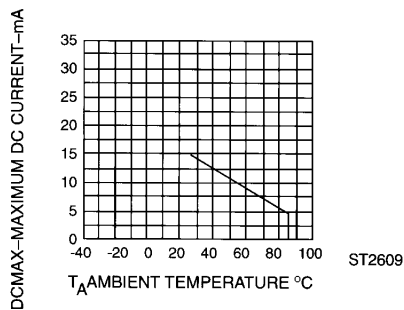


Fig. 4 Maximum Allowable DC Current Per Segment vs. A Function Of Ambient Temperature

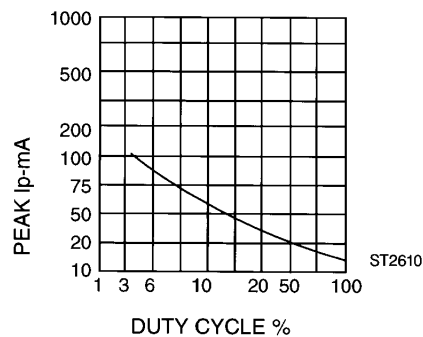


Fig. 6 Max Peak Current vs. Duty Cycle % (Refresh Rate $f=1\text{ KHz}$)

Clean the displays only in water, isopropanol, ethanol, freon TF or TE (or equivalent)