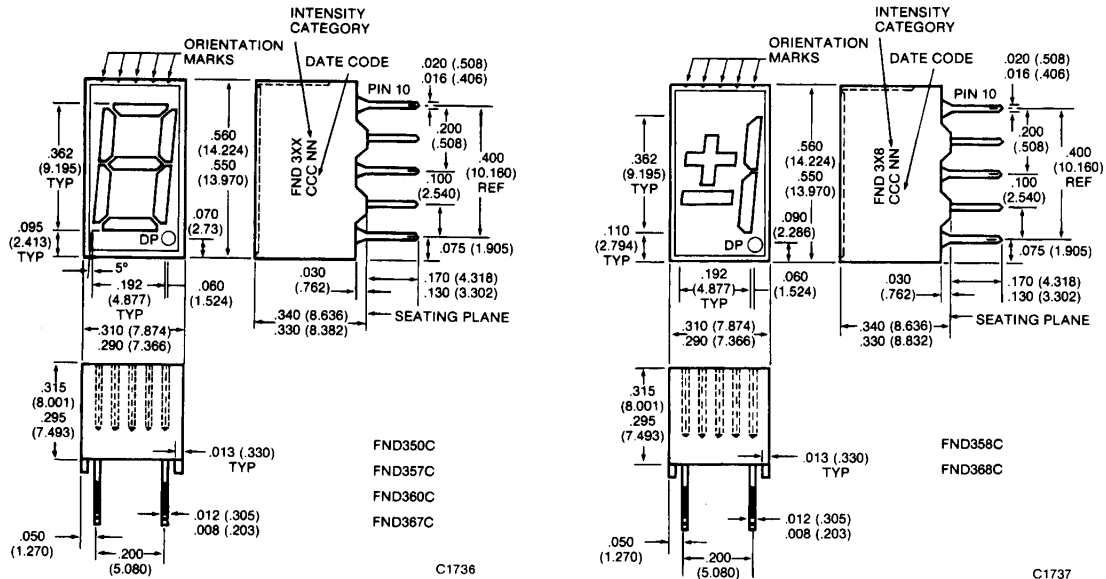




## 0.362-INCH SEVEN SEGMENT DISPLAYS

### RED FND350C FND357C FND358C HI-BRITE RED FND360C FND367C FND368C

#### PACKAGE DIMENSIONS



- NOTES:
1. ALL DIMENSIONS ARE IN MM (INCH)
  2. TOLERANCES ARE  $\pm 0.010$  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

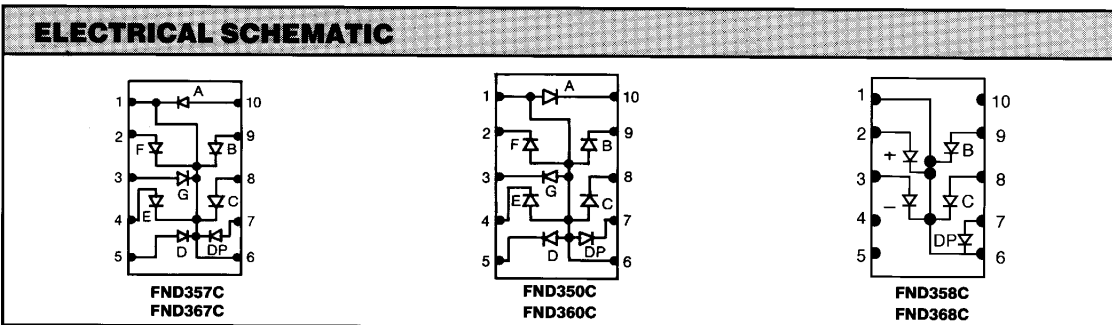
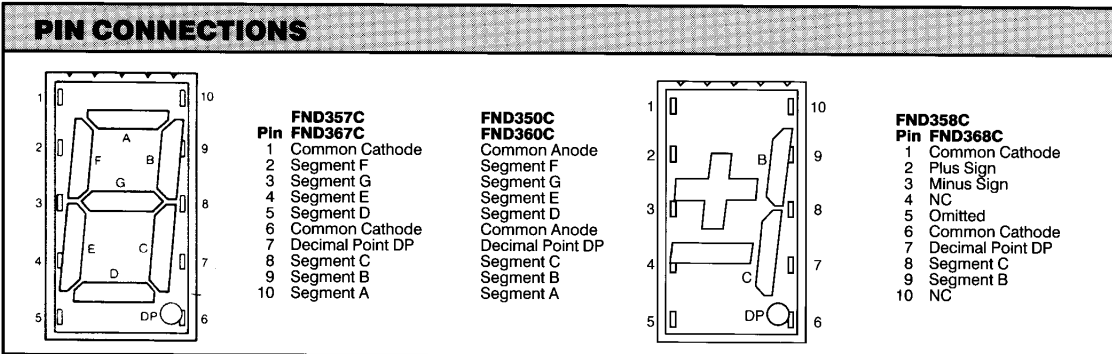
- Exactly pin and package compatible with FND3XX.
- Compact—10 digits in 3 inch panel width
- Right hand decimal configuration
- Wide viewing angle
- Categorized for luminous intensity
- Rugged encapsulated plastic construction

#### MODEL NUMBERS

PART NUMBER	COLOR	DESCRIPTION
FND350C	Red	Common anode seven segment display
FND357C	Red	Common cathode seven segment display
FND358C	Red	Common cathode $\pm 1$ 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 $\pm 1$ 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				
Total	200 mA	125 mA	200 mA	125 mA
Per segment or decimal point	25 mA	25 mA	25 mA	25 mA
Reverse voltage				
Per segment or decimal point	6 V	6 V	6 V	6 V
Storage and operating temperature		-25° to +85°C		
Soldering time at 250°C (1/16 inch from the seating plane)		3 sec		

ELECTRO-OPTICAL CHARACTERISTICS (T <sub>A</sub> =25°C Unless Otherwise Specified)					
Parameter	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Forward voltage - V (per diode)					
FND35XC		1.7	2.0	V	I <sub>F</sub> =20 mA
FND36XC		2.1	2.6	V	I <sub>F</sub> =20 mA
Luminous intensity - I <sub>v</sub>					
FND35XC	240	450		ucd	I <sub>F</sub> =20 mA
FND36XC	240	450		ucd	I <sub>F</sub> =20 mA
Peak wavelength					
FND35XC		655		nm	I <sub>F</sub> =20 mA
FND36XC		655		nm	I <sub>F</sub> =20 mA
Reverse voltage - V <sub>R</sub>	5			V	I <sub>R</sub> =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)

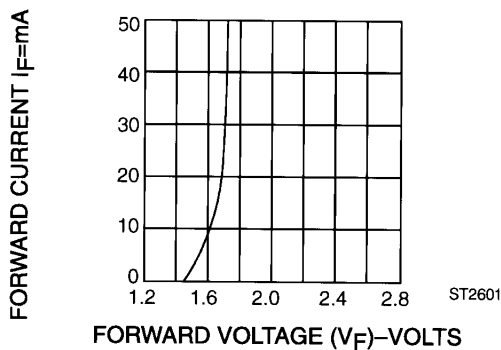


Fig. 1 Forward Current vs. Forward Voltage

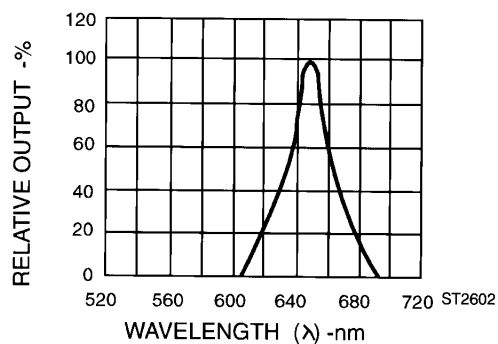


Fig. 2 Spectral Response

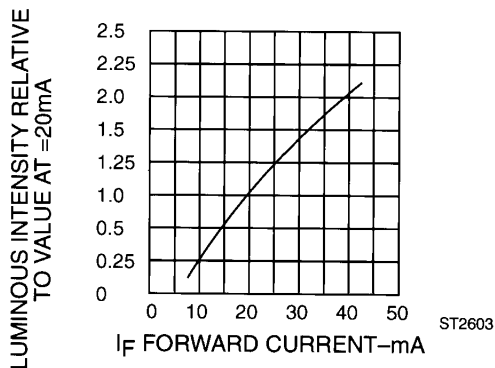


Fig. 3 Relative Luminous Intensity vs. Forward Current

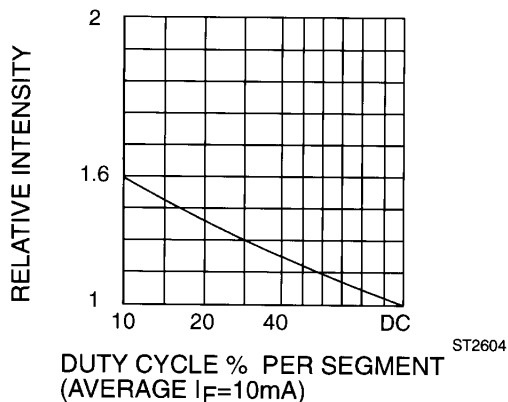


Fig. 5 Luminous Intensity vs. Duty Cycle

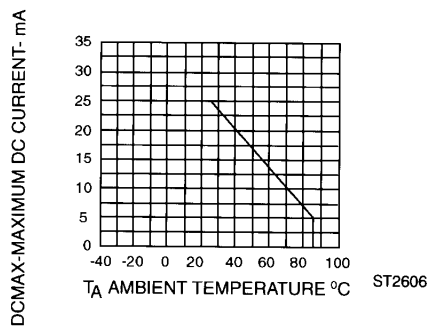


Fig. 4 Maximum Allowable DC Current Per Segment vs. A Function Of Ambient Temperature

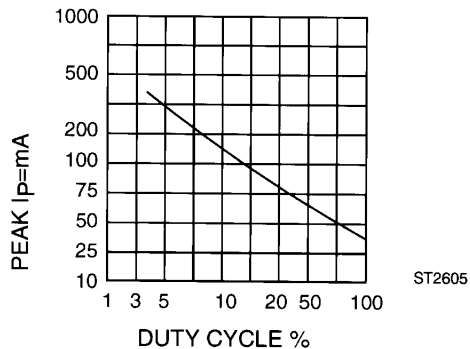


Fig. 6 Max Peak Current vs. Duty Cycle % (Refresh Rate  $f = 1\text{KHz}$ )

**TYPICAL ELECTRO - OPTICAL CHARACTERISTIC CURVES**

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

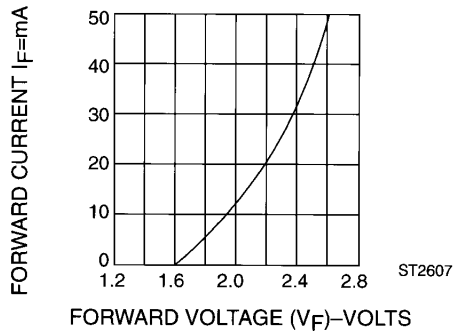


Fig. 1 Forward Current vs. Forward Voltage

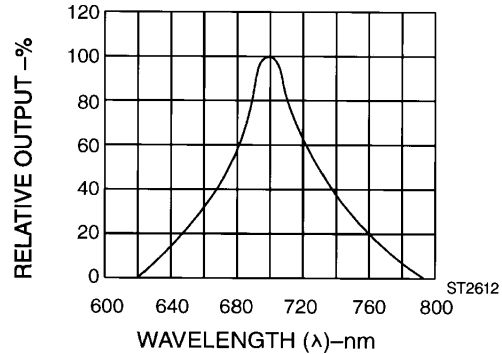


Fig. 2 Spectral Response

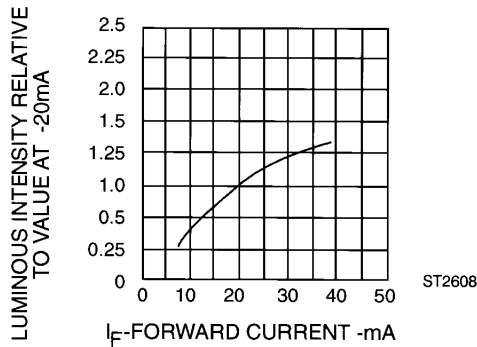


Fig. 3 Relative Luminous Intensity vs. Forward Current

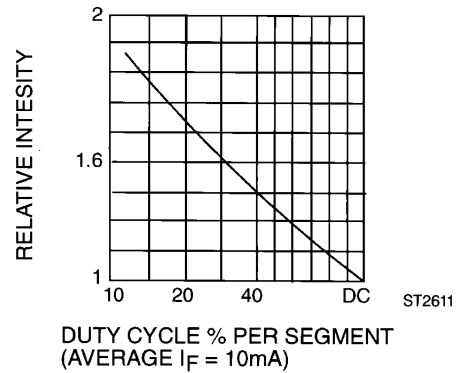


Fig. 5 Luminous Intensity vs. Duty Cycle

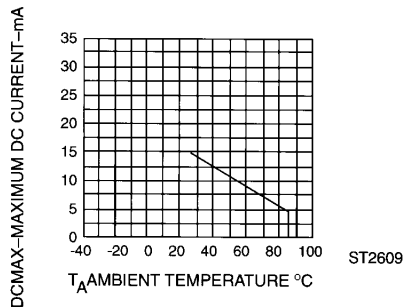


Fig. 4 Maximum Allowable DC Current Per Segment vs. A Function Of Ambient Temperature

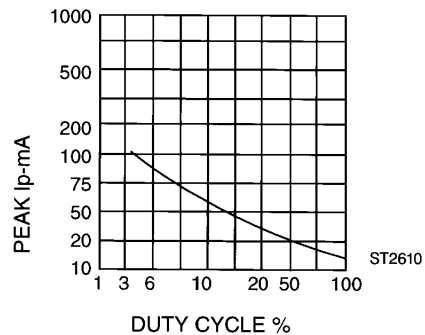


Fig. 6 Max Peak Current vs. Duty Cycle % (Refresh Rate  $f=1\text{ KHz}$ )

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

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