7

FND 500, FND 507 ½in. Single Digit Numeric Display

GENERAL DESCRIPTION

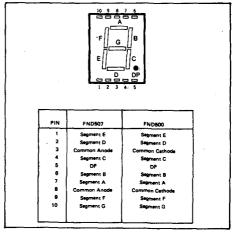
The FND500 and FND507 are Red GaAsP Single Digit, 7-segment LED Displays with a nominal in. character height. The FND500 has common cathode configuration. The FND507 has common anode configuration. These display devices are for applications where the viewer is within twenty feet of the display. Each digit has a brightness code (05, 06, 07...) for constructing arrays with closely matched digits.

ABSOLUTE MAXIMUM RATINGS

Junc	tion temperature	-25°C to +85°C -25°C to +85°C 260°C			
Store	age temperature				
	er temperature conds)				
Relative humidity @ 65°C		98%			
V _R	Reverse voltage	3.0V	_		
I _F (Avg) Average forward current/segment o decimal point Derate from 25°C ambient tempera- ture		25mA 0.3mA/°C			
lp _	Peak current/ segment or decima point (100µs pulse width) 1000 PPS, T _A = 25°C	ul 200mA			

ELECTRICAL AND RADIANT CHARACTERISTICS (T_A = 25°C)

PIN CONNECTIONS



FEATURES

Low current requirements of typically 5.0 mA/segment
Low voltage of typically 1.7 V_F
Fits standard dip sockets with 0.6° pin row
Decimal point on lower right-hand side
Overflow point on upper left-hand side with
digit reversed
Maximised contrast ratio with integral lens cap
Horizontal stacking 0.6° minimum, 1° typical

Common cathode or common anode

REFERENCE TABLE

Code	Stock No.
FND500	35449X
FND507	35450C

Symbol	Characteristic	Min.	Тур.	Max.	Units	Test Conditions
l _o	Axial Luminous Intensity, Each Segment	240	600		μcd	I _F = 20 mA
V _F BV _R	Forward Voltage Reverse Breakdown	1.5 3.0	1.7 12	2.0	V	$I_F \approx 20 \text{ mA}$ $I_R \approx 1.0 \text{ mA}$
Ø1/2	Voltage Viewing Angle to		±25			
	Half Intensity		IZ 3		degrees	
Lo	Average Segment Luminance	_	35	_	ftL	I _F = 20 mA
rlpk	Peak Wavelength	_	650		nm	I _F = 20 mA
ΔΙ _ο	Intensity Matching, Segment to Segment	_	±33	_	%	I _F = 20 mA
	Intensity Matching, Within One Intensity Class	_	±20	_	%	I _F = 20 mA on all segments at once