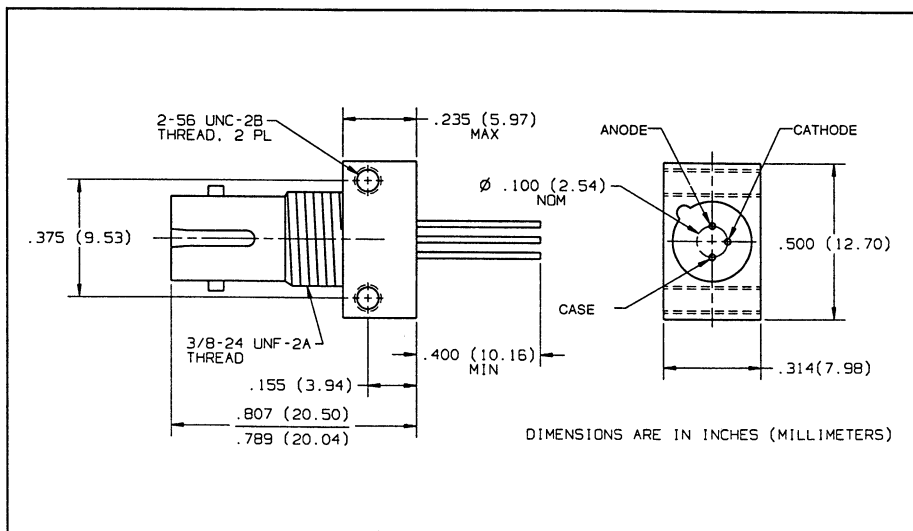
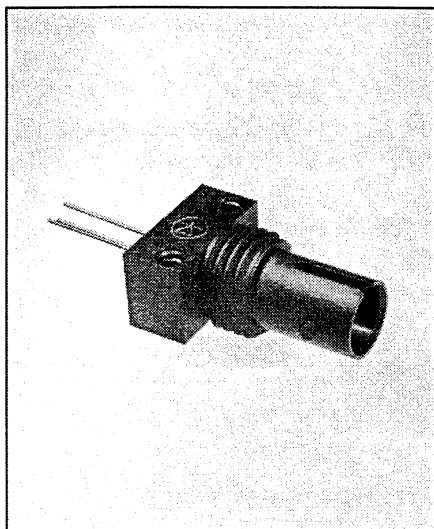


# Short Wavelength Fiber Optic LED in Plastic ST\* Receptacle Type OPF692



## Features

- Low cost plastic ST receptacle
- Pre-tested with fiber to assure performance
- Coupled power varies from part to part by less than 5 dB

## Description

The OPF692 contains a high speed 840 nm GaAlAs light emitting diode. Its high speed and efficient coupling power along with the low cost make this a good choice for cost sensitive high data rate applications up to 194 MBd.

\* is a registered trademark of AT&T.

## Absolute Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

|                                                                                          |                  |
|------------------------------------------------------------------------------------------|------------------|
| Storage Temperature                                                                      | -55° C to +85° C |
| Operating Temperature                                                                    | -40° C to +85° C |
| Lead Soldering Temperature [1/16 inch (1.6 mm) from case for 5 sec. with soldering iron] | 260° C           |
| Forward Input Current (Peak*)                                                            | 200 mA           |
| Forward Input Current (DC)                                                               | 100 mA           |
| Reverse Input Voltage                                                                    | 1.8 V            |

## LED Burn-In

All LED's are subject to 100% burn-in testing. Test conditions are 96 hours at 100 mA continuous current at 25° C ambient.

\*Not to exceed 2 ns.

# Type OPF692

Electrical Characteristics ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

$P_T$  test with graded index fiber, 50/125, N.A. = 0.20

| SYMBOL      | PARAMETER                     | MIN  | TYP | MAX  | UNITS | TEST CONDITIONS                |
|-------------|-------------------------------|------|-----|------|-------|--------------------------------|
| $P_{T50}$   | Coupled Output Power OPF692-1 | -20  |     | -15  | dBm   | $I_F = 100\text{ mA}$ D.C.     |
| $P_{T50}$   | Coupled Output Power OPF692-2 | -17  |     | -12  | dBm   | $I_F = 100\text{ mA}$ D.C.     |
| $V_F$       | Forward Voltage               | 1.48 |     | 2.09 | V     | $I_F = 100\text{ mA}$ D.C.     |
| $V_{BR}$    | Reverse Input Voltage         | 1.8  |     |      | V     | $I_R = 100\text{ }\mu\text{A}$ |
| $t_r, t_f$  | Rise Time, Fall Time          |      | 4.0 | 6.5  | ns    | $I_F = 100\text{ mA}$          |
| $\lambda_p$ | Peak Output Wavelength        | 830  | 840 | 870  | nm    | $I_F = 50\text{ mA}$           |

## Typical Performance Curves

