
Connectorized Single Mode ELEDs

Technical Data

Features

- Industry Standard FC and ST® Connectors
- 1300 nm Wavelength
- Linewidth <125 nm
- High Reliability
- Range of Flange Options
- -40°C to +80°C Operation

Applications

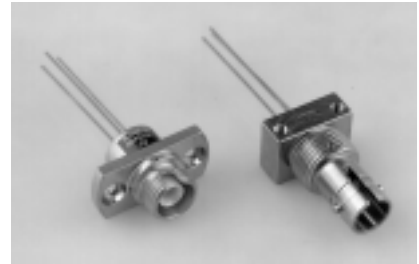
- Optical Data Communication Transmitters
- E-O Convertors
- LANS
- FDDI Networks
- FITL

Description

The LST range of products includes a wide variety of connectorized ELED emitters for single mode operation. The products have been developed for low cost and wide operating temperature applications such as telecom FITL and datacom FDDI LANS. Variants are available in industry standard connector types with a selection of mounting flange options.

The product range features a high reliability ridge waveguide ELED manufactured using our MOVPE process. The construction of the products includes a hermetically sealed ELED and is designed to be compatible with the environmental requirements of the Bellcore TA-TSY-000983 document.

LST0400



Absolute Maximum Ratings

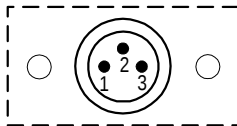
Absolute maximum limits mean that no catastrophic damage will occur if the product is subjected to these ratings for short periods, provided each limiting parameter is in isolation and all other parameters have values within the performance specification. It should not be assumed that limiting values of more than one parameter can be applied to the product at the same time.

Parameter	Symbol	Conditions	Limits		Units
			Minimum	Maximum	
Forward Current	If	DC	-	175	mA
Reverse Voltage	Vr	DC	-	2	V
Operating Temperature	Tc		-40	+80	°C
Storage Temperature	Ts		-40	+85	°C
Soldering		10 seconds	-	+260	°C

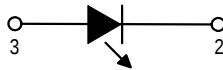
Performance Specification

Parameter	Symbol	Test Conditions	Minimum	Maximum	Units
		CW, Tc = +25°C, If = 100 mA unless otherwise stated			
Launched Optical Power	Po	into 9/125 fiber	5	12	μW
Optical Power Over Temperature	$\Delta P_o / \Delta T$	Tc = -40°C to +80°C	-	±6	dB
Central Wavelength	λ		1285	1345	nm
Spectral Width	$\Delta \lambda$		-	125	nm
Wavelength Temperature Coefficient	$\Delta \lambda / \Delta T$	Tc = -40°C to +80°C	-	0.8	nm/°C
Rise/Fall Times	τ_r / τ_f	10% to 90% points	-	3	nS
Forward Voltage	Vf		-	1.7	V
Reverse Leakage	Vr	Bias = -2 V	-	200	μA

Electrical Pin Out



PIN 1: NO CONNECTION
PIN 2: CATHODE -ve
PIN 3: ANODE +ve



All dimensions in mm

Ordering Information

LST0400 - xx - x

Flange Type:

A = 2 Hole Panel Mount

F = 2 Hole PCB Mount, Threaded

Connector Type:

FC = FC

ST® = ST

Fiber Type:

4 = Single mode

Available Options:

LST0400-FC-A

LST0400-ST-F

ST® is a Registered Trademark of AT&T

www.hp.com/go/fiber

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Data subject to change.

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