

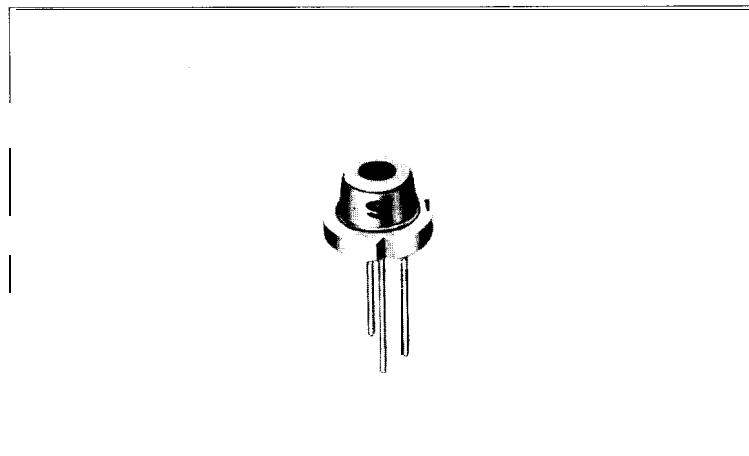
# LTO28PS

## Features

- Small astigmatic distance (less than 10 μm)
- Low droop rate (10% TYP.)
- Wavelength: 780nm
- Single transverse mode

## Applications

- General purpose laser printers
- Information processing equipment



## Absolute Maximum Ratings

(Tc=25°C)

Parameter	Symbol	Ratings	Units
Power output	Po	5	mW
Voltage	Laser PIN	2 30	V
Operating temperature	Topr	-10 to +60	°C
Storage temperature**	Tstg	-40 to +85	°C

\* 1 Case temperature

## Electro-optical Characteristics \*\*

(Tc=25°C)

Parameter	Symbol	Condition	Ratings			Units
			MIN	TYP	MAX	
Threshold current	Ith		—	3	5	50
Operating current	Iop	Po=3mW	—	45	60	mA
Operating voltage	Vop	Po = 3 m W	—	1.75	2.2	V
Wavelength**	λp	i Po=3mW	770	780	795	nm
Monitor current	Im	Po=3mW VR=15V	0.04	0.10	0.30	mA
Radiation characteristics	Angle <sup>*3</sup>	Parallel to junction	θ//	Po=3mW	8	11 14 deg
		Perpendicular to junction	θ⊥	Po=3mW	20	29 36 deg
Emission point accuracy	Ripple			Po=3mW	—	±35 %
		Angle	Δφ//	Po=3mW	—	±2 deg
	Position	Δφ⊥	Po=3mW	—	±3	deg
		Ax, Ay, Az	—	—	+800	μm
Differential efficiency	η	2mW	2	0.3	0.4	mW/mA
Astigmatic distance**	AAs	Po=3mW	—	10	+	μm
Droop rate**	ΔP	Po=3mW	10	—	—	%

\* 1 Initial value

\* 2 Single transverse mode

\* 3 Angle at 50% peak intensity (full width at half-maximum)

\* 4 According to measurement method Fig. 27-1

\* 5 According to measurement

method Fig. 29-1

## Electrical Characteristics of Photodiode

(Tc=25°C)

Parameter	Symbol	Condition	Ratings			Units
			MIN	TYP	MAX	
Sensitivity	S	VR=15V	—	0.03	—	mA/mW
Dark current	Id	VR=15V	—	—	150	nA
Terminal capacitance	Ct	VR=15V	—	9	—	pF