

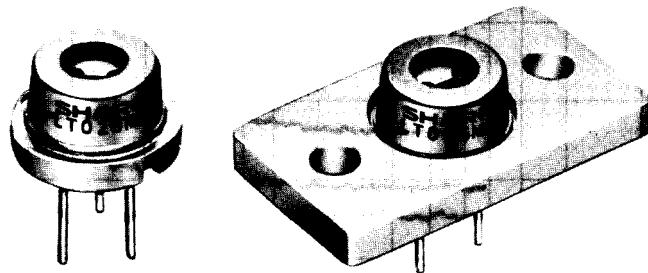
LT026MD/MF

Features

- Small astigmatic distance
(less than 10 μm)
- Wavelength: 780nm
- Single transverse mode

Applications

- General purpose laser printers
- Information processing equipment



Absolute Maximum Ratings

(Tc = 25°C)			
Parameter	Symbol	Ratings	Units
Optical power output	Po	5	mW
Reverse voltage Laser	V _R	2	V
PIN		30	
Operating temperature* ¹	T _{opr}	-10 to +60	°C
Storage temperature* ¹	T _{stg}	-40 to +85	°C

* 1 Case temperature

Electro-optical Characteristics **

Parameter	Symbol	Condition	Ratings			Units
			MIN	TYP	MAX	
Threshold current	I _{th}			50	80	mA
Operating current	I _{op}		65	100	1000	mA
Operating voltage	V _{op}	Po=3mW	1	1.75	2.2	V
Wavelength* ²	λ_p	Po=3mW	770	780	790	nm
Monitor current	I _{re}	Po=3mW V _R =15V	0.3	0.9	1.6	mA
Radiation characteristics	Angle* ³	Po=3mW θ_{\parallel}	8	11	16	deg
	Angle* ³	Po=3mW θ_{\perp}	20	29	36	deg
	Ripple	Po=3mW			± 20	%
Emission point accuracy	Angle	Po = 3mW			± 2	deg
	Position* ⁴	Po = 3mW			± 3	deg
Differential efficiency	η	2mW $ I_F(3\text{mW}) - I_F(1\text{mW}) $	0.2	0.3	0.5	mW/mA

* 1 Initial value

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

* 2 Single transverse mode

* 4 Not specified for LT026MF

Electrical Characteristics of Photodiode

Parameter	Symbol	Condition	Ratings			Units
			MIN	TYP	MAX	
Sensitivity	S	V _R =15V		0.3		mA/mW
Dark current	I _D	V _R =15V			250	nA
Terminal capacitance	C _t	V _R =15V		8	20	pF