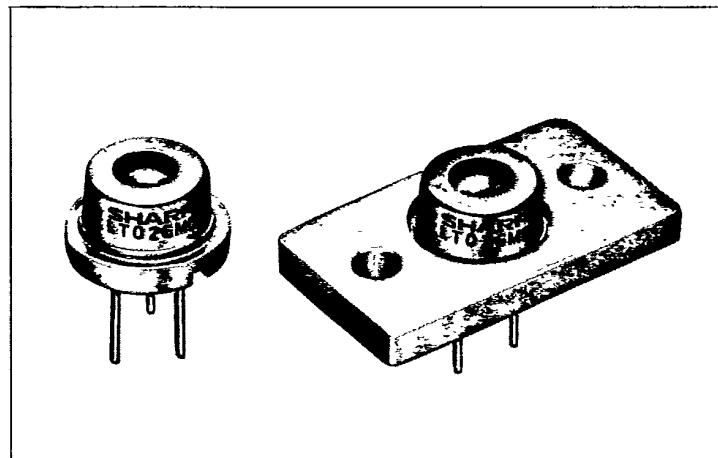


LT026MD/MF**Features**

- 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	2	V
	PIN	30	
Operating temperature*1	Topr	-10 ~ +60	°C
Storage temperature*1	Tstg	-40 ~ +85	°C
Soldering temperature*2	Tsol	260 (less than 5 seconds)	°C

*1 Case temperature *2 At point 1.6 mm from lead base

Electro-optical Characteristics*1

(Tc=25°C)

Parameter	Symbol	Condition	Ratings			Units	
			MIN	TYP	MAX		
Threshold current	Ith	—	—	50	80	mA	
Operating current	Iop	Po=3mW	—	65	100	mA	
Operating voltage	Vop	Po=3mW	—	1.75	2.2	V	
Wavelength*2	λ_p	Po=3mW	770	780	790	nm	
Monitor current	Im	Po=3mW VR=15V	0.3	0.9	1.6	mA	
Radiation characteristics	Angle*3	Parallel to junction	θ//	Po=3mW	8	11	deg
		Perpendicular to junction	θ⊥	Po=3mW	20	29	deg
Emission point accuracy	Angle		Δφ//	Po=3mW	—	±2	deg
			Δφ⊥	Po=3mW	—	±3	deg
	Position*4	Δx, Δy, Δz	—	—	—	±80	μm
Differential efficiency	η	2mW $ I_F(3mW) - I_F(1mW) $	0.2	0.3	0.5	mW/mA	

*1 Initial value

*2 Single transverse mode

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

*4 Not specified for LT026MF

Electrical Characteristics of Photodiode

(Tc=25°C)

Parameter	Symbol	Condition	Ratings			Units
			MIN	TYP	MAX	
Sensitivity	S	VR=15V	—	0.3	—	mA/mW
Dark current	Id	VR=15V	—	—	250	nA
Terminal capacitance	Ct	VR=15V	—	8	20	pF