

LN125D004 (Tentative)

GaAlAs LED Module

For Optical Fiber Communication Systems

■ Features

- Plastic type connector module.
- Coupling characteristics suitable for plastic fiber
- Red radiation: $\lambda_p=660\text{nm}$
- High-speed, -3dB modulation of 10MHz

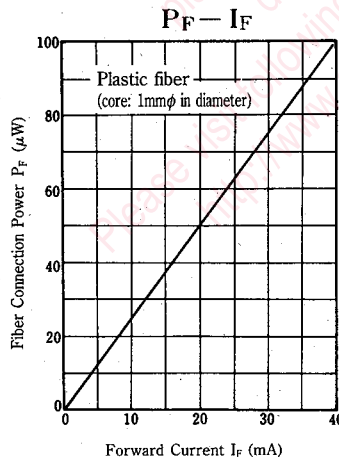
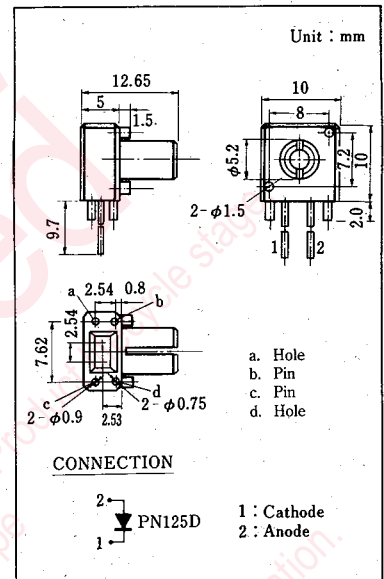
■ Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Power Dissipation	P_D	120	mW
Forward Current (DC)	I_F	40	mA
Pulse Forward Current	I_{FP}^*	200	mA
Reverse Voltage	V_R	3	V
Operating Ambient Temperature	T_{opr}	$-25 \sim +65$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-25 \sim +65$	$^\circ\text{C}$

* $t_w=10\mu\text{s}$, duty cycle 10 %

■ Electro-Optical Characteristics ($T_a=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Forward Voltage	V_F	$I_F=20\text{ mA}$		1.8	2.6	V
Reverse Current	I_R	$V_R=3\text{ V}$			100	μA
Fiber Power Output	P_F	$I_F=20\text{ mA}$, Plastic Fiber $1\text{ mm}\phi$	30	50		μW
Peak Emission Wavelength	λ_p	$I_F=20\text{ mA}$		660		nm
Spectral Band Width	$\Delta\lambda$	$I_F=20\text{ mA}$		20		nm
Response Time	t_r, t_f	$I_{FP}=100\text{ mA}$		30		ns



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