LN125D

GaAlAs Red Light Emitting Diode

For Optical Fiber Communications and Control Systems

■ Features

- Red radiation (λ_P=660nm)
- High-power output
- High coupling characteristics used with plastic fiber
- High-speed modulation (10MHz)
- Side-view plastic flat package

■ Absolute Maximum Ratings (Ta=25°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 (DC)	V _R	3	V.
Operating Ambient Temperature	T_{opr}	$-25 \sim +85$	J.
Storage Temperature	T_{stg}	$-30 \sim +100$	C C

^{*}tw= 10μ s, Duty Cycle=10%

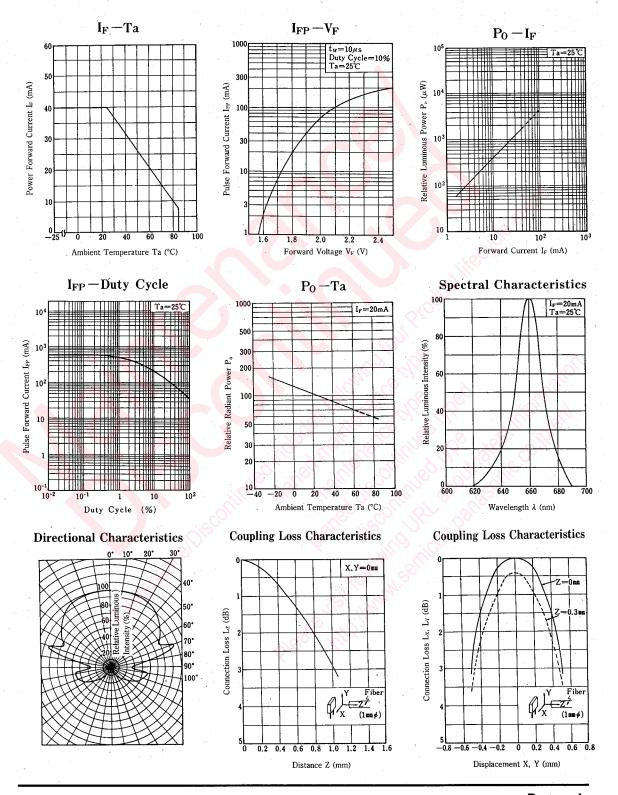
Unit: mm 4.5±0.15 3.5±0.15 16±0.15 0.8±0.1 2.1±0.15 16±0.15 0.8±0.1 1 : Cathode 2 : Anode

■ Electro-Optical Characteristics (Ta=25°C)

Item	Symbol .	Condition	min.	typ.	max.	Unit
Optical Power Output	Po*	$I_F = 20 \mathrm{mA}$	400			μW
Peak Emission Wavelength	λ _P	$I_F = 20 \text{mA}$	0	660		nm .
Spectral Band Width	Δλ .	$I_F = 20 \text{mA}$		20		nm
Forward Voltage (DC)	$V_{\mathbf{F}}$	I _F =20 mA		1.8	2.6	. V
Reverse Current (DC)	I_R	$V_R = 3V$, , , , , , , , , , , , ,	-	100	μA
Beam Half Angle	θ.	Measured from the optical axis to the half power point		80	:	deg.
Response Time	t _r , t _f	I _{FP} =100mA		30		ns

* Po Classifications

Class	R	S	T
$P_0(\mu W)$	400~900	700~1200	>1000



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