StarLED

Infrared Point Source LED Die

MED8P67A

MED8P67A is a low failure infrared point source LED die. It is well suited for optical switches, positioning and sensing applications due to its small-size emitting aperture.

Features

- Small-size emitting aperture (ϕ60μm)
- Small side-face emission
- High output power
- High reliability

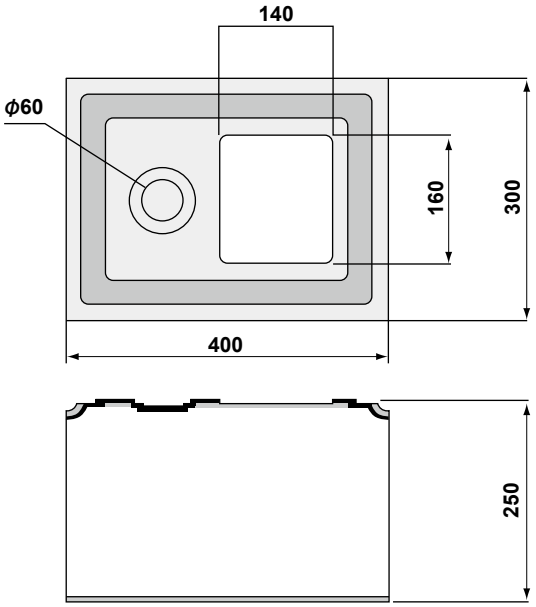
Structure

- Material: AlGaAs/GaAs sub.
- Electrode: Au alloy (p,n)
- Emitting surface: p-side

Applications

- Optical encoders
- Optical switches
- Optical sensors etc

Dimensional outline drawing(μm)



Absolute Maximum Ratings* (Ta=25℃)

Parameter	Symbol	Rating	Unit
Forward Current	I_F	80	mA
Reverse Voltage	V_R	3	V
Operating Temperature	T_{opr}	-20 ~ 80	℃
Storage Temperature	T_{stg}	-30 ~ 100	℃

Electro-Optical Characteristics* (Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=50mA	-	2.0	2.4	V
Reverse Current	I_R	V_R=3V	-	-	10	μA
Output Power	P_o	I_F=50mA	1.2	2.0	-	mW
Central Wavelength	λc	I_F=50mA	-	855	-	nm
Side-face Emission	P_s	I_F=50mA	-	-	1	%

*As mounted on TO18 header and hermetically sealed

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MED8P67A

Fig1. IF / Ta

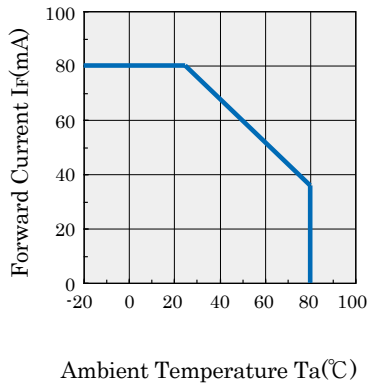


Fig2. IF / VF

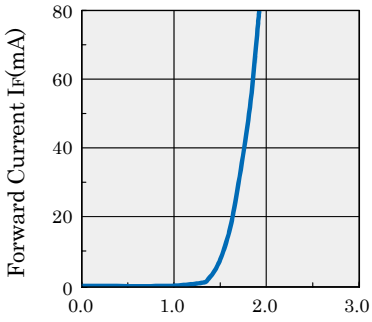


Fig3. VF / Ta

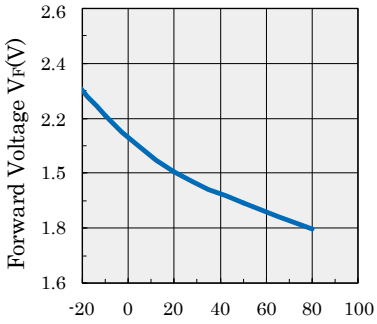


Fig4. Po / IF

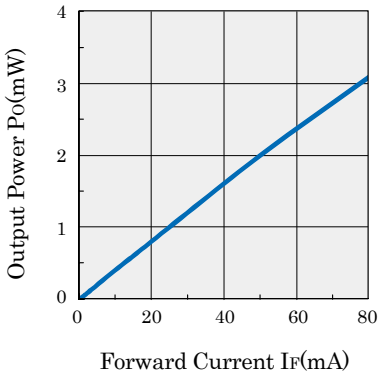


Fig5. Relative Po / Ta

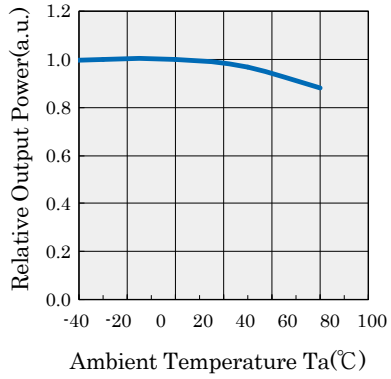


Fig6. Spatial Distribution

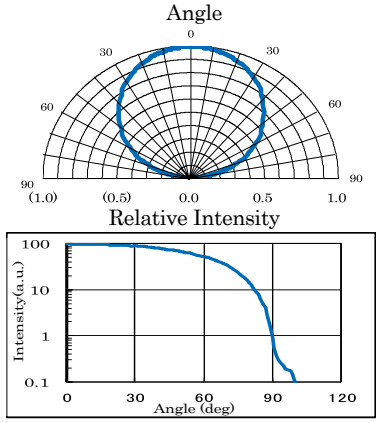


Fig7. Spectral Characteristics

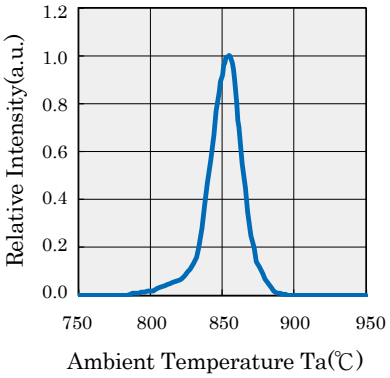


Fig8. Central Wavelength / Ta

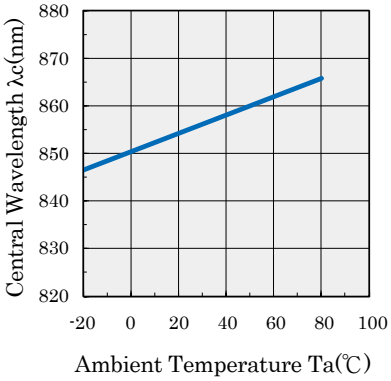
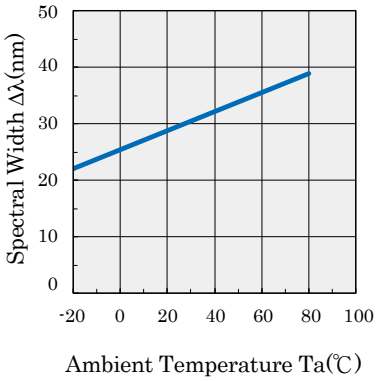


Fig9. Spectral Width / Ta



This catalogue was compiled in March 2023. All items listed in the catalogue are subject to change without any prior notice.

Products listed in this catalogue are designed and manufactured for use in standard applications (eg: household appliances, OA/AV, telecommunications, measurement instruments). The customers should take security measures, when used the products in critical reliability and security applications (eg: space and aviation, critical-safety transport applications, nuclear power control, medical, life-supporting units and equipment).We assume no liability for damages incurred by use of the products without taking measures described above.

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