

MED8P67A is a Low failure infrared point source LED die. It is optimized for optical switches and encoder applications due to its small-size small-size emitting window.

Features

- Small-size emitting window ($\phi 60\mu\text{m}$)
- Small side-face emission
- High output power
- High reliability

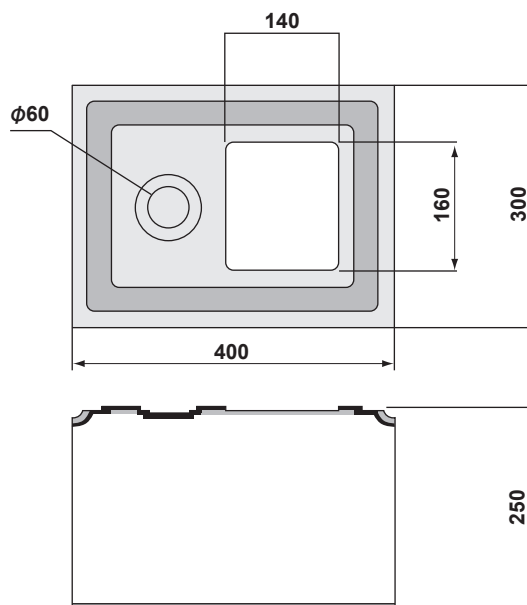
Structure

- 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* ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Forward Current	I_F	80	mA
Reverse Voltage	V_R	3	V
Operating Temperature	T_{opr}	$-40 \sim 105$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim 105$	$^\circ\text{C}$

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=50\text{mA}$	-	2.0	2.4	V
Reverse Current	I_R	$V_R=3\text{V}$	-	-	10	μA
Output Power	P_o	$I_F=50\text{mA}$	1.2	2.0	-	mW
Radiant flux	Φ_E	$I_F=50\text{mA}$	2.0	3.3	-	mW
Central Wavelength	λ_c	$I_F=50\text{mA}$	-	855	-	nm
Side-face Emission	P_s	$I_F=50\text{mA}$	-	-	1	%

*As mounted on T018 header and hermetically sealed.

Fig1. I_F / T_a

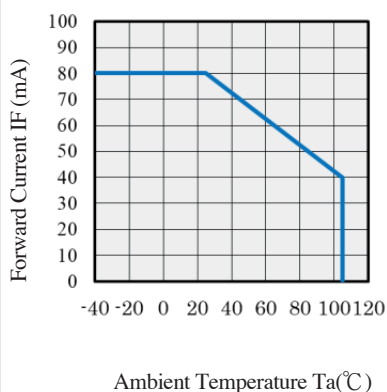


Fig2. I_F / V_F

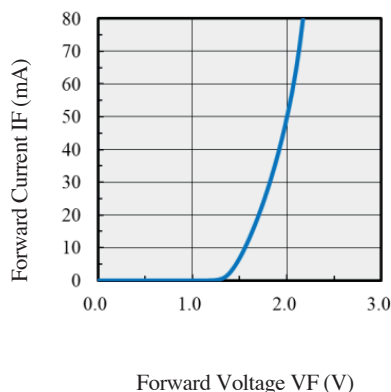


Fig3. V_F / T_a

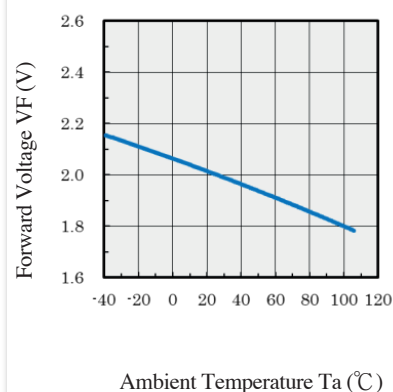


Fig4. P_o / I_F

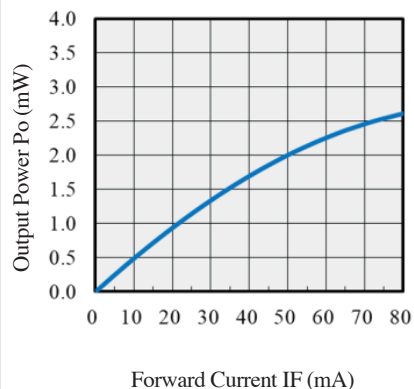


Fig5. Relative P_o / T_a

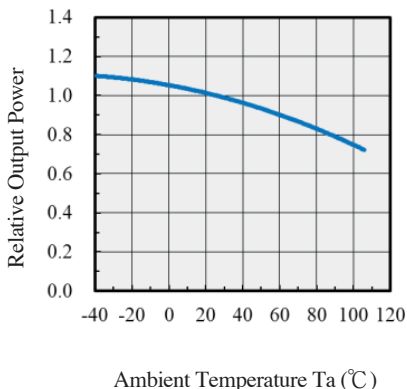


Fig6. Spatial Distribution

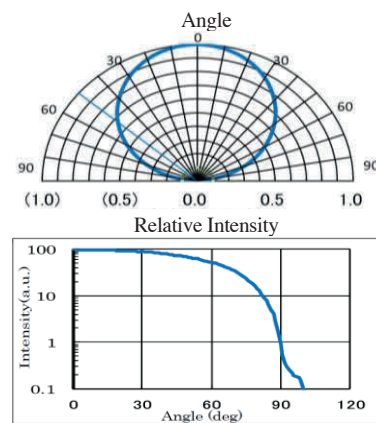


Fig7. Spectral Characteristics

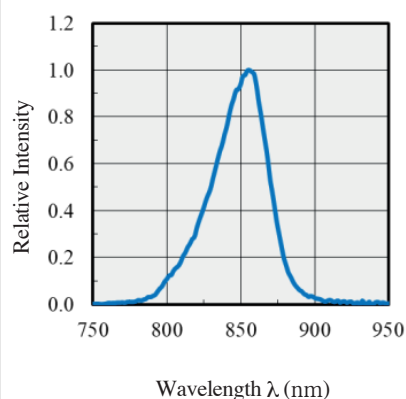


Fig8. Central Wavelength λ_c / T_a

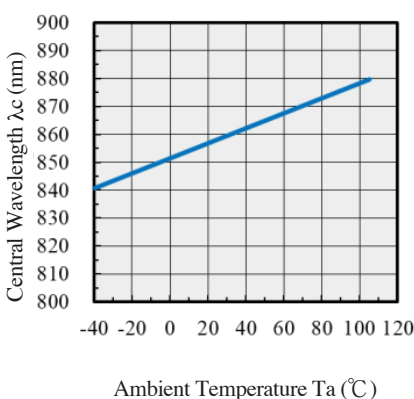
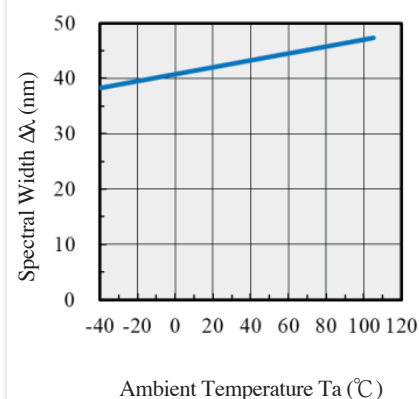


Fig9. Spectral Width $\Delta\lambda / T_a$



This catalogue was compiled in Nov. 2025. 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.

