

MODEL YL-Φ5T018F series

T018 Flat Can Type



Mechanical Specifications and Materials (Unit: mm)

Product ID

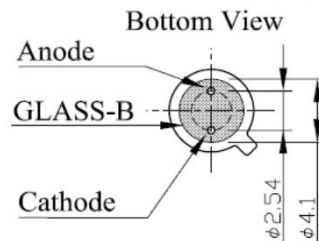
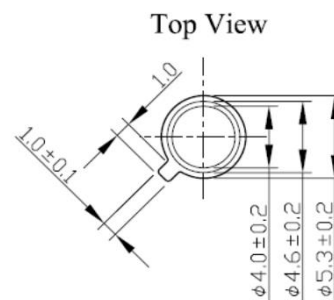
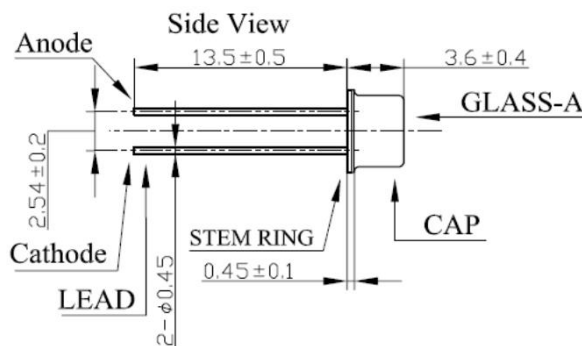
265nm: YL-Φ5T018F-265nm

280nm: YL-Φ5T018F-280nm

310nm: YL-Φ5T018F-310nm

325nm: YL-Φ5T018F-325nm

340nm: YL-Φ5T018F-340nm



ITEM	MATERIALS
1 GLASS-A	UV-GLASS
2 CAP	KOVAR, Ni Plating
3 STEM RING	KOVAR, Au Plating
4 GLASS-B	Hard Glass (Black)
5 LEAD	KOVAR, Au Plating

Typical Optical-Electrical Characteristics (I_F=20mA, T_a=25°C)

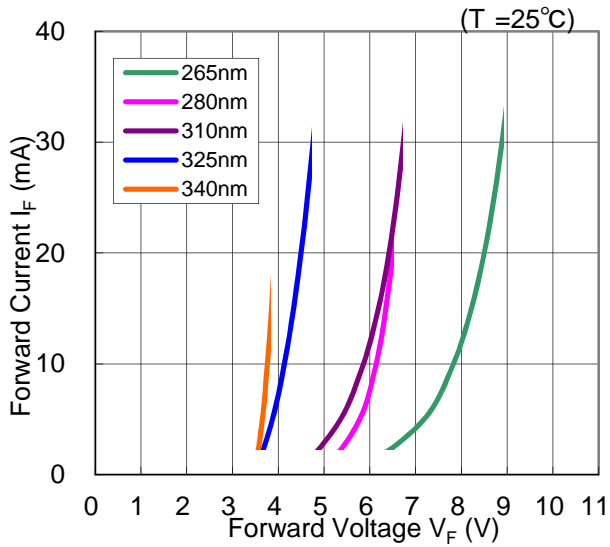
Item	Symbol	Unit	265nm	280nm	310nm	325nm	340nm
Peak Wavelength	λ_p	nm	265±5	280±10	310±5	325±5	340±5
Radiant Flux	P _o	mW	0.7	1.3	0.7	1.1	1.1
Full Width at Half Maximum	Δ	nm	13	12	15	11	9
Forward Voltage	V _F	V	8-9	6.5	6-7	4.5	4.0
Response*	rise time	t _r	ns	-	16	20	12
	fall time	t _f	ns	-	8	9	8
Viewing Half Angle	2θ _{1/2}	deg.	113	113	113	113	113

*Test condition : Frequency=100kHz, duty=1%, I_F=200mA

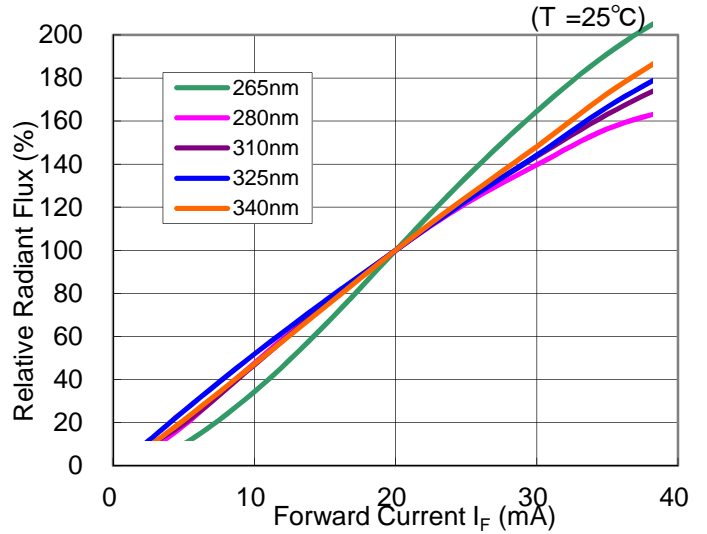
Absolute Maximum Ratings

Item	Symbol	Unit	Ambient Temperature	
Forward Current	I _{Fmax}	mA	40	T _a =25°C
Operating Temperature	T _{OPR}	°C	-30 ~ +80	
Storage Temperature	T _{STG}	°C	-40 ~ +100	
Soldering Temperature	T _{SOL}	°C	350 (within 3sec)	Manual soldering process
			250 (within 5sec)	Flow soldering process

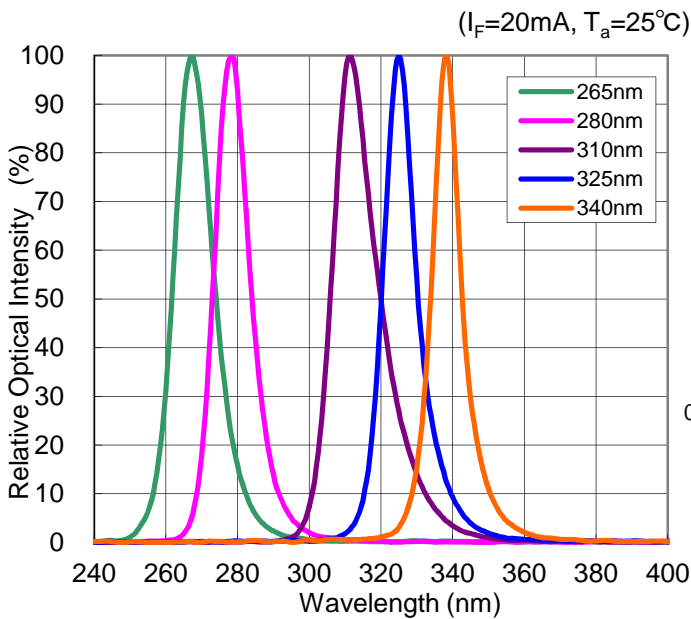
Forward Current vs Forward Voltage



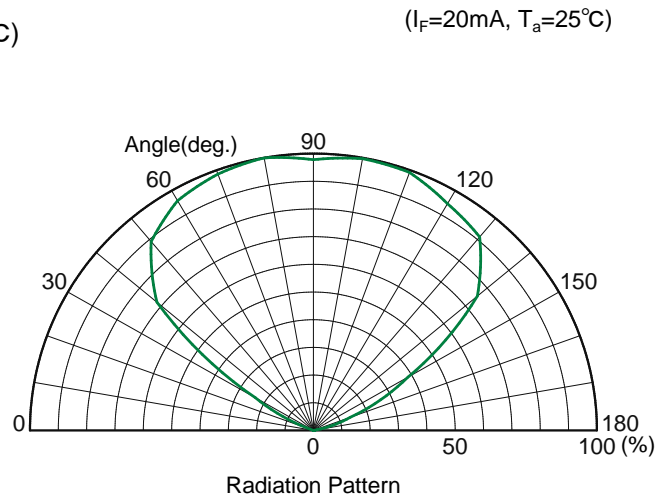
Forward Current vs Radiant Flux



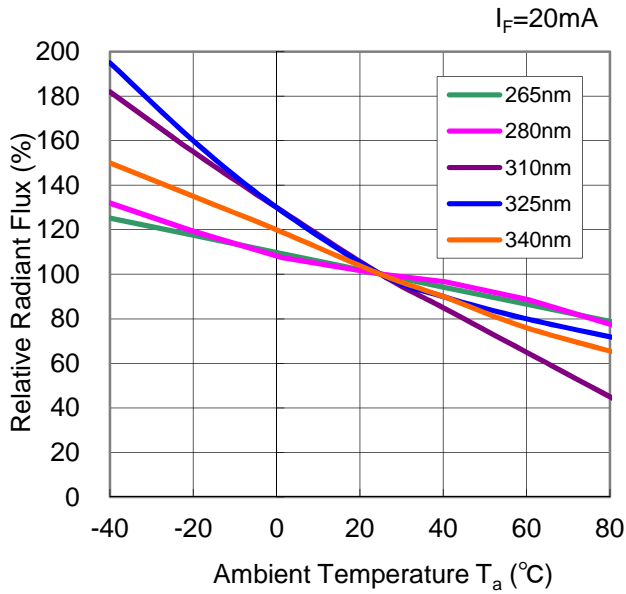
Relative Intensity vs Peak Wavelength



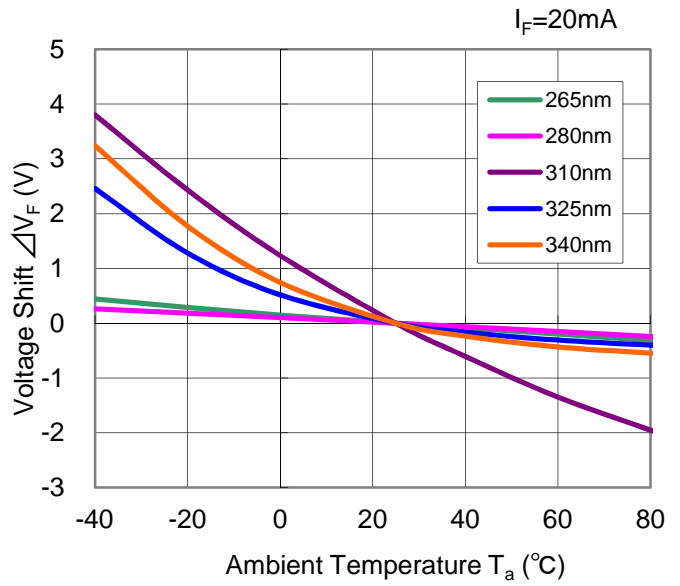
Radiation Pattern



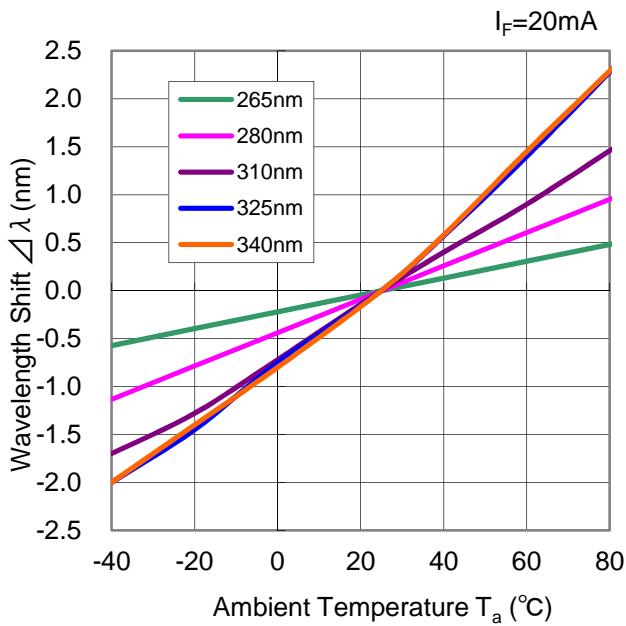
Radiant Flux vs Ambient Temperature



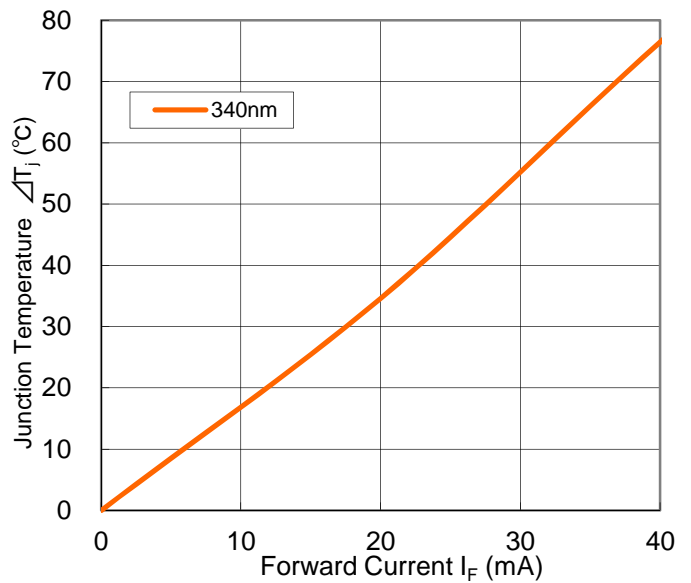
Voltage Shift vs Ambient Temperature



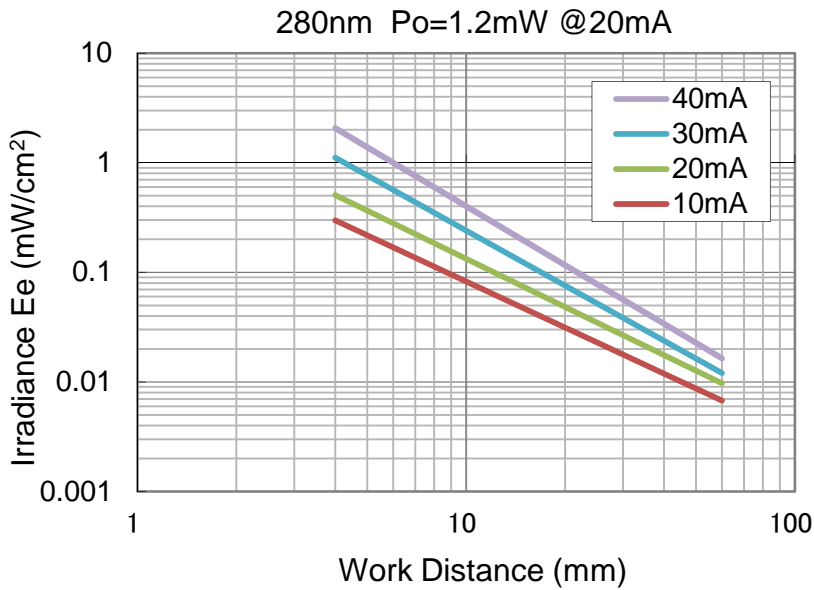
Wavelength Shift vs Ambient Temperature



Junction Temperature vs Forward Current



Irradiance vs Work Distance



CAUTION

- LEDs emit very strong UV radiation.
- Don't look directly into the LED light.
UV radiation can harm your eyes.
- To prevent even inadequate exposure, wear protective eyewear.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.
- Specification and dimension are subject to change for improvement without notice.

Issued January 2016.

SPEC information (included design, dimension, and typical data) would be changed without prior notice.