

1. Name: UV LED

2. Model: UV-375-540

3. Absolute maximum ratings (Ta=25°C)

Item	Symbol	Maximum rating	Unit
DC Forward current	I _F	25	mA
Pulse forward current*	I _{FP}	100	mA
Power dissipation	P _D	100	mW
Operating temperature	T _{OPR}	-30 to +80	°C
Storage temperature	T _{STG}	-30 to +85	°C
Soldering temperature	T _{SOL}	260°C within 10 seconds	

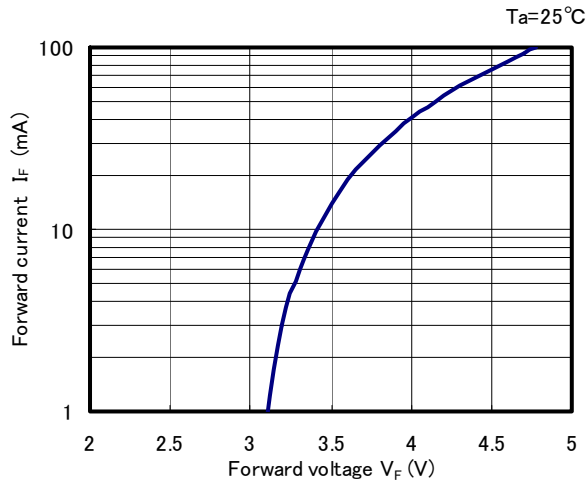
* Conditions: Duty cycle $\leq 1/10$, Pulse width $\leq 0.1\text{msec}$

4. Optical and electrical characteristics (Ta=25°C)

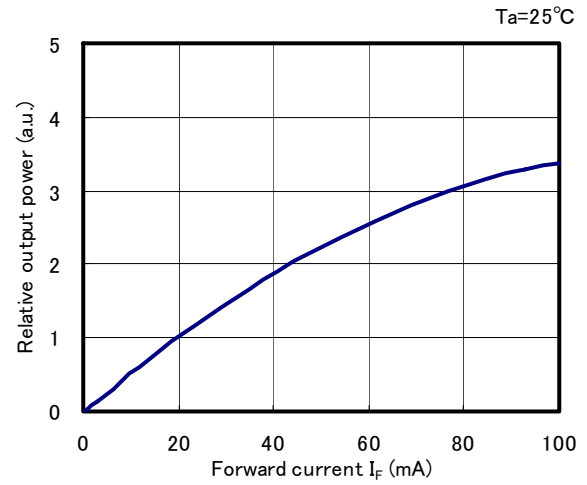
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =20mA	3.2	3.6	4.2	V
Peak wavelength	λ_p	I _F =20mA	375	-	380	nm
Full width at half maximum	$\Delta\lambda$	I _F =20mA	10	15	20	nm
Optical output power		I _F =20mA	17	21	25	mW

Optical and electrical characteristics

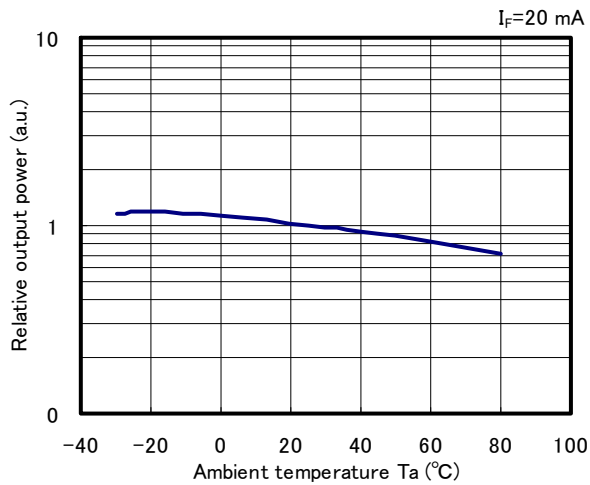
■ Forward current vs. Forward voltage



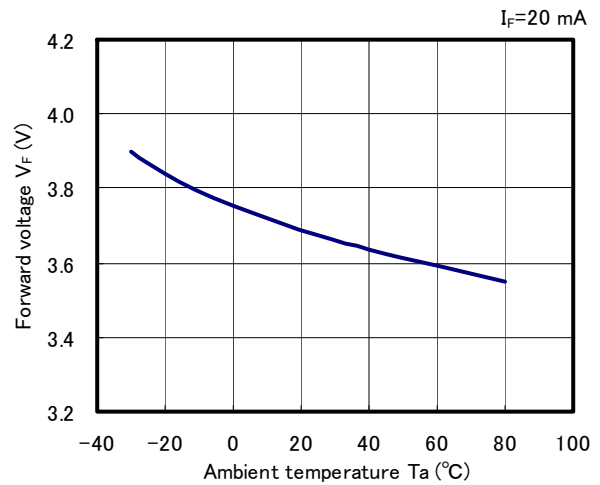
■ Relative output power vs. Forward current



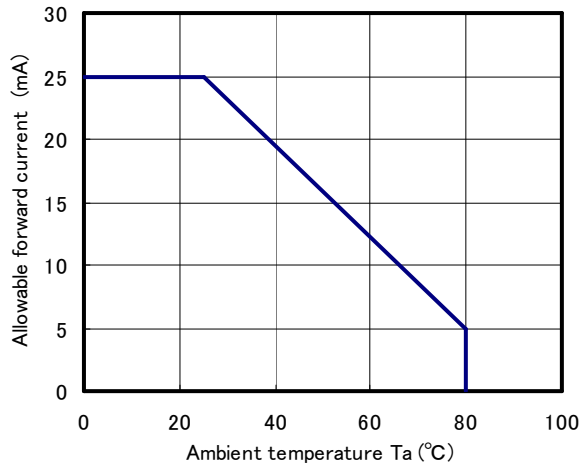
■ Relative output power vs. Ambient temperature



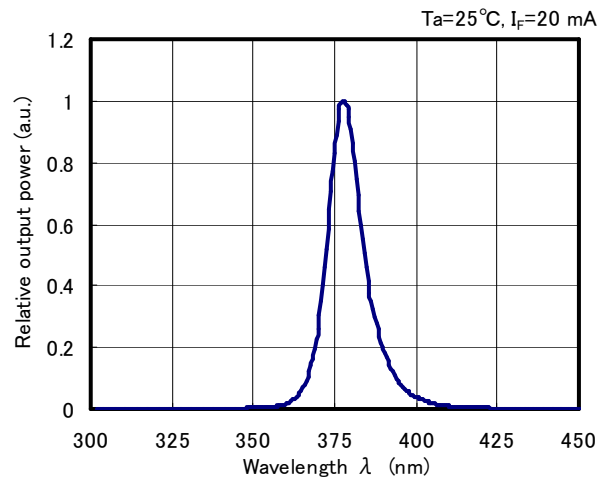
■ Forward voltage vs. Ambient temperature



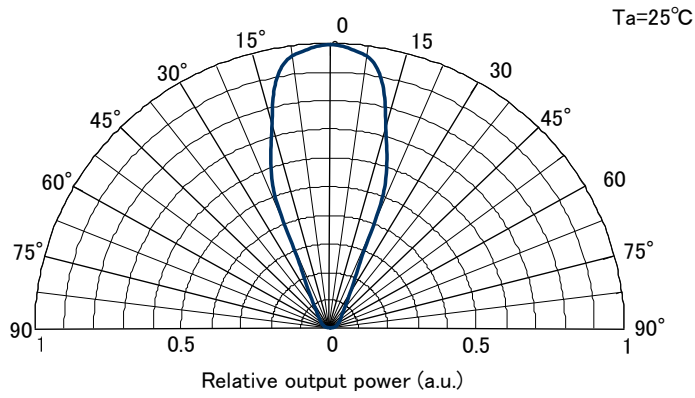
■ Allowable forward current vs. Ambient temperature



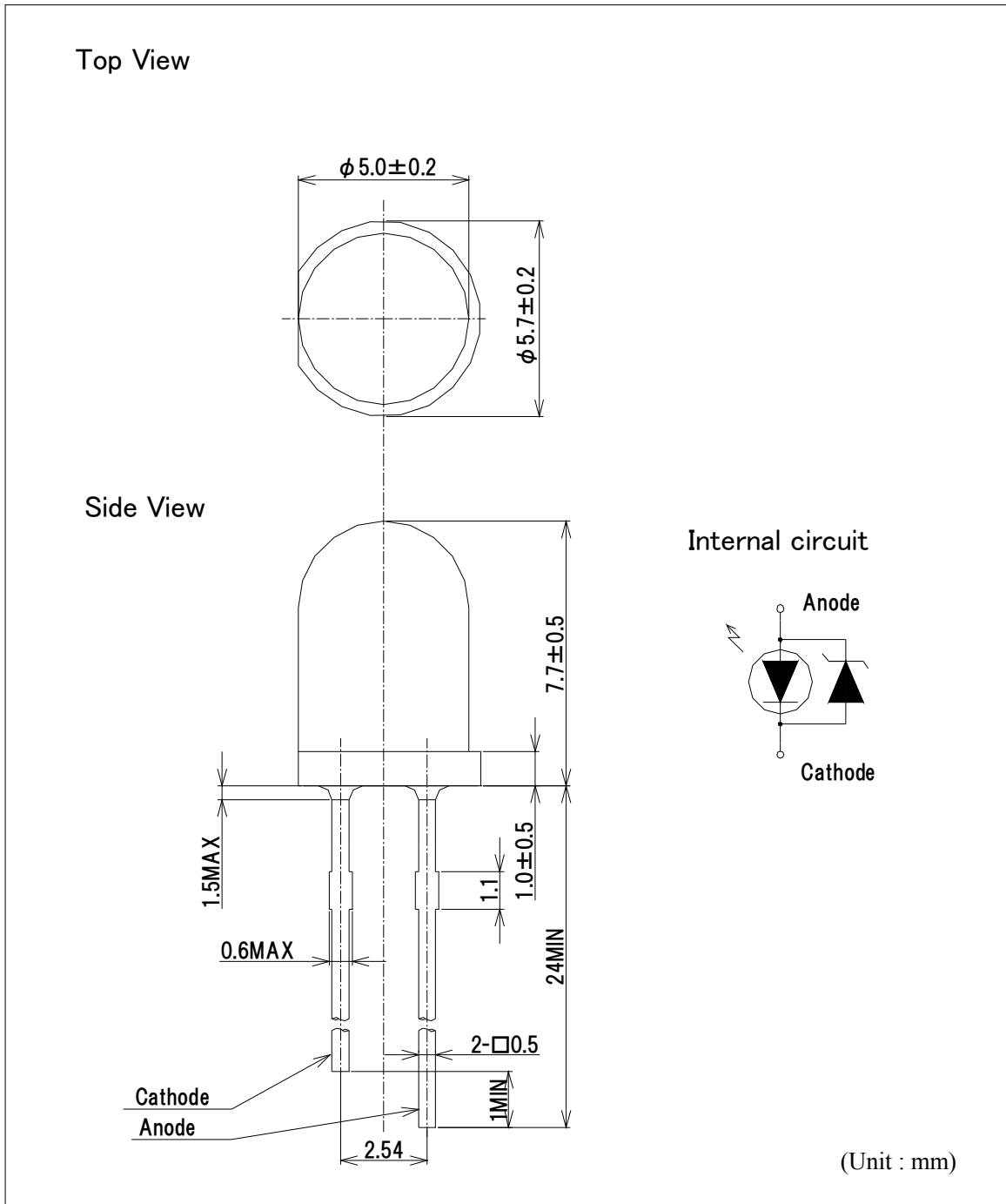
■ Spectrum



■ Radiation pattern



■ Dimensional outline drawing



*A Zener diode is built in the protective circuit against static electricity.

Item	Material
Encapsulating Resin	Silicone resin
Lead Frame	Fe + Ag coating