

1. Name: UV LED

2. Model: UV-375-515

3. Absolute maximum ratings

(Ta=25) 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	
Storage temperature	T _{STG}	-30 to +85	
Soldering temperature	T _{SOL}	260 within 10 seconds	

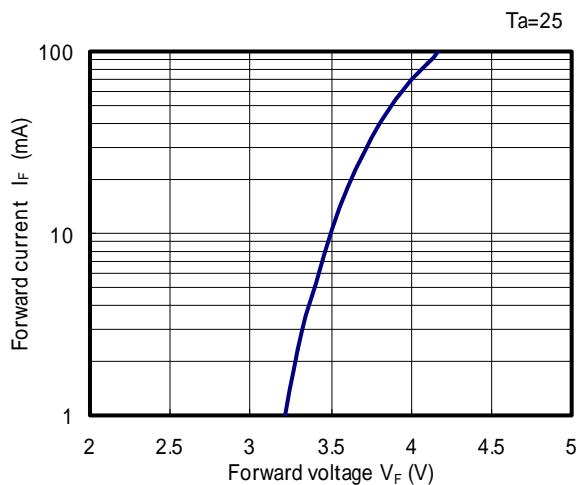
* Conditions: Duty cycle 1/10, Pulse width 0.1msec

4. Optical and electrical characteristics (Ta=25)

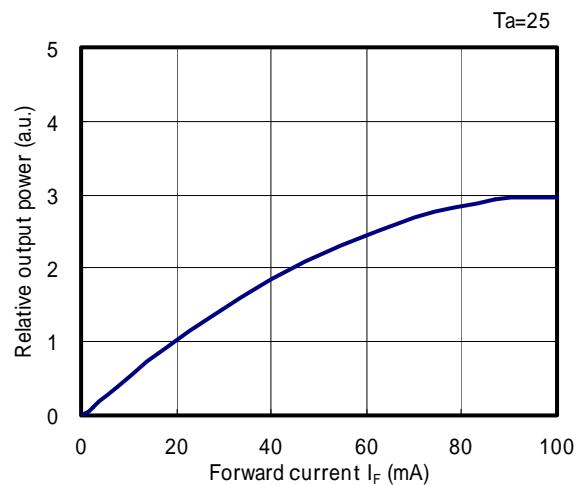
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =20mA	3.2	3.6	4.2	V
Peak wavelength	λ _p	I _F =20mA	375	-	380	nm
Full width at half maximum	λ	I _F =20mA	10	15	20	nm
Optical output power	P _O	I _F =20mA	8.4	11.2	14	mW

Optical and electrical characteristics

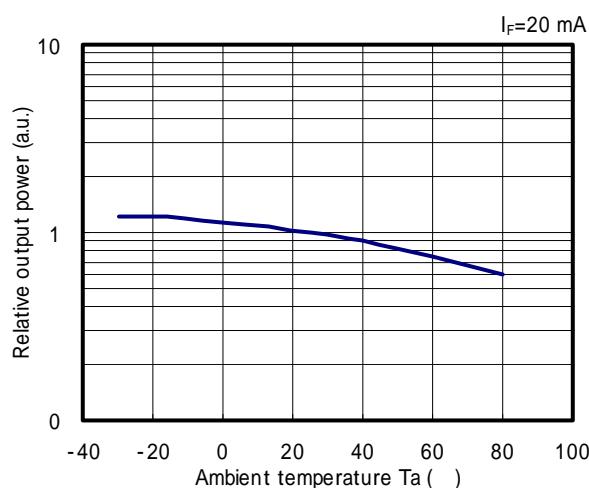
Forward voltage vs. Forward current



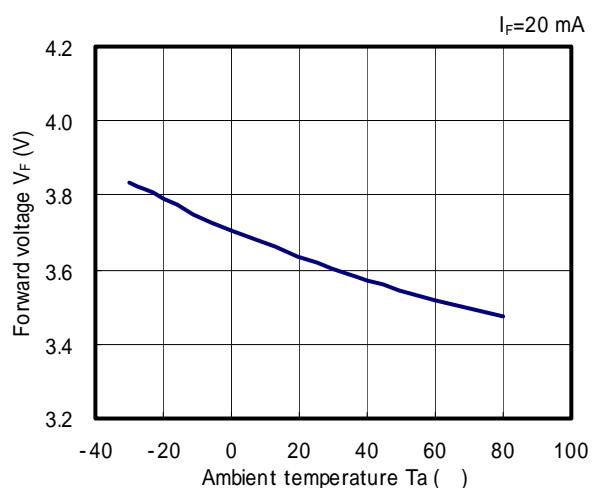
Relative output power vs Forward current



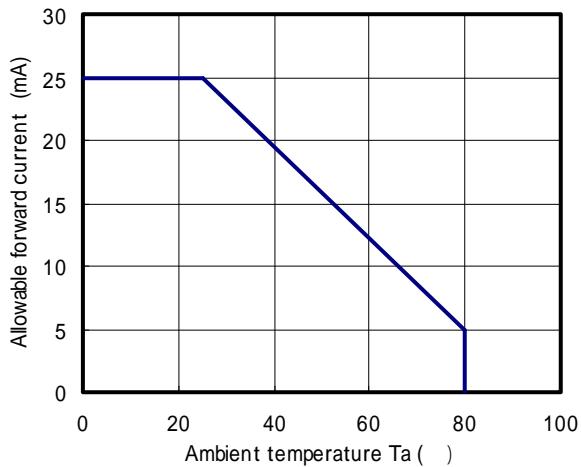
Relative output power vs. Ambient temperature



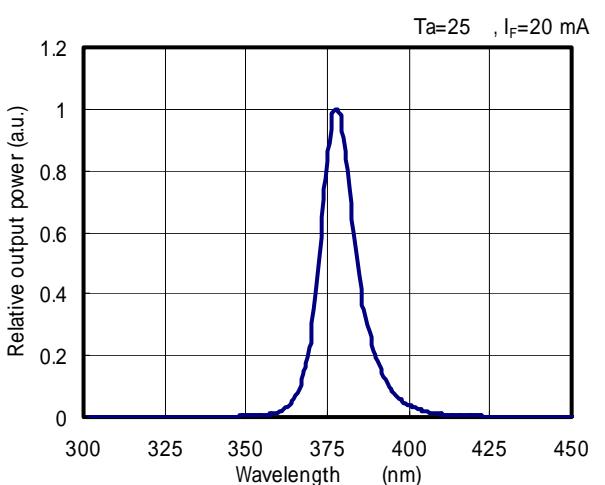
Forward voltage vs. Ambient temperature



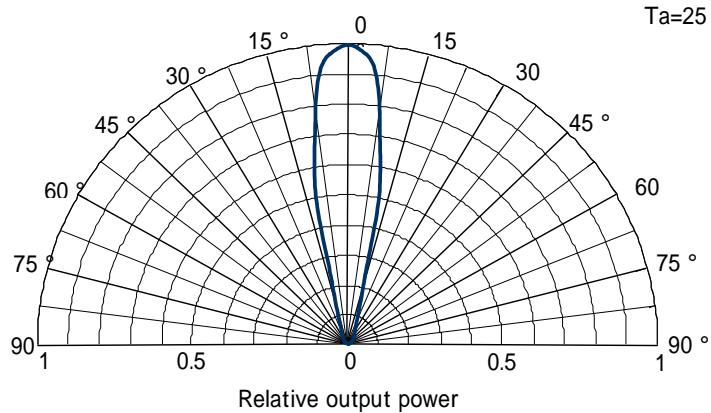
Allowable forward current vs. Ambient temperature



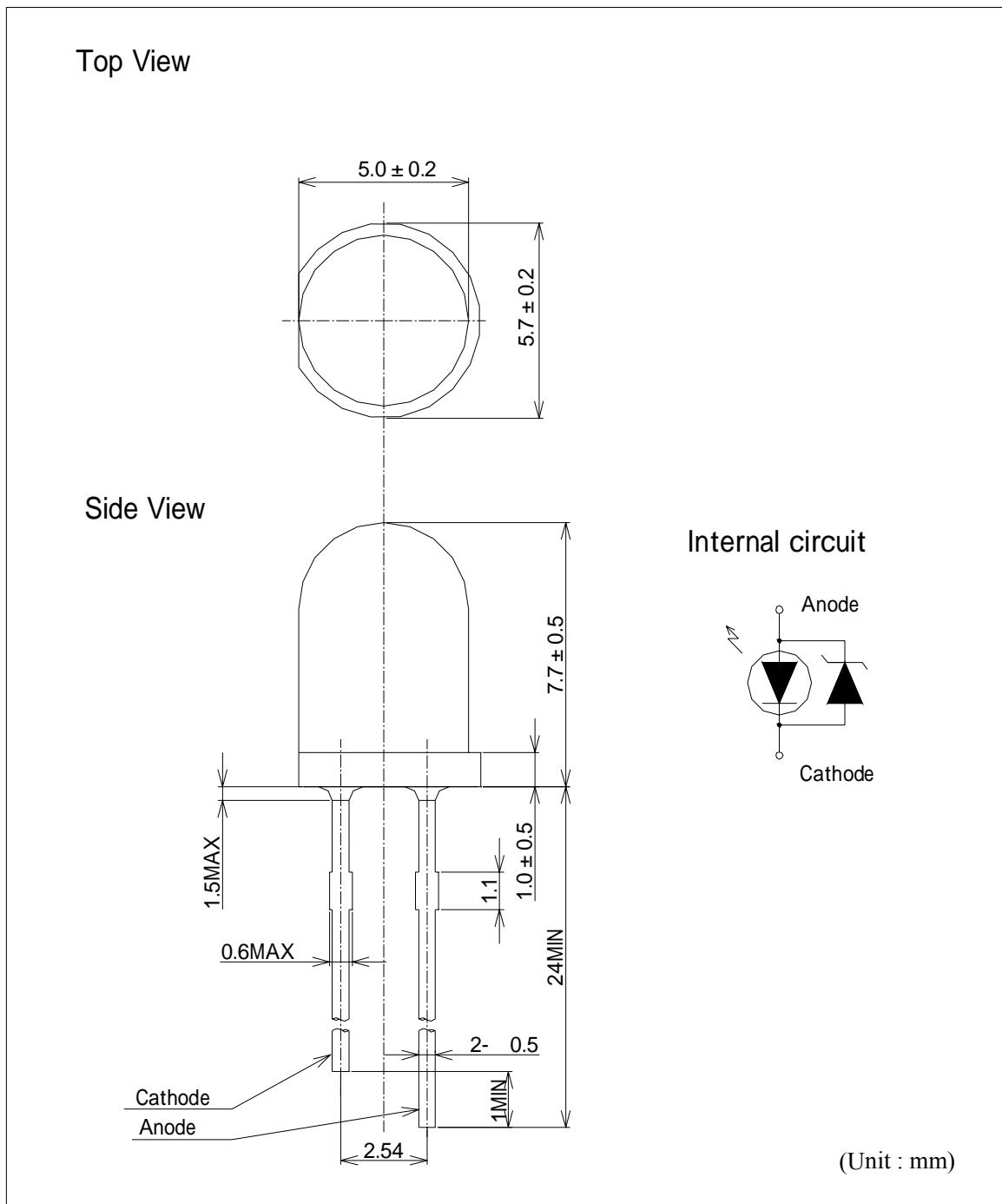
Spectrum



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