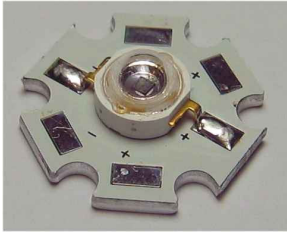
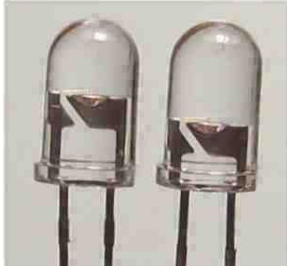


### High-Power Infrared LEDs



Onstate high-power infrared LEDs are designed specifically for CCTV applications with CCD/CMOS camera systems. The use of large, high-efficiency AlGaAs chips provides greater power allowing for smaller illuminator size with less LEDs used. It is suitable for machine vision, security or data for intermittent or continuous, long-life, demanding applications. The LEDs are available in standard thru-hole or on metal PCBs to suit various applications.


**Applications:**

- Machine vision
- CCTV camera systems
- Data transmission

**Features:**

- Large AlGaAs chip
- High output power
- Long life, low degradation

**Product specifications:**

Part Number	Package Type	Wavelength (nm)	Max. Current (mA)	Beam Angle (deg)	Typ. Center Beam Intensity (mW/sr)
ELE-LED8520-1	5mm T1 3/4	850	150	20	300
ELE-LED8535-1	5mm T1 3/4	850	150	35	150
ELE-LED85F-1	Star PCB	850	1000	45	200
ELE-LED85F-1	Star PCB	850	1000	120	100

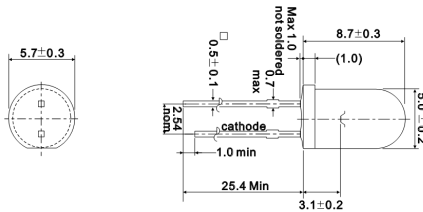
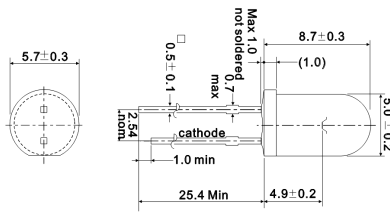
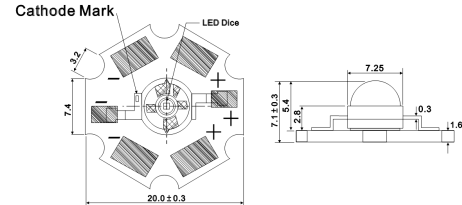
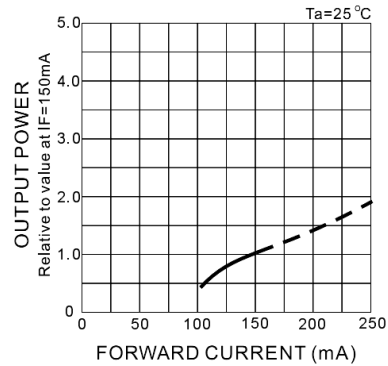
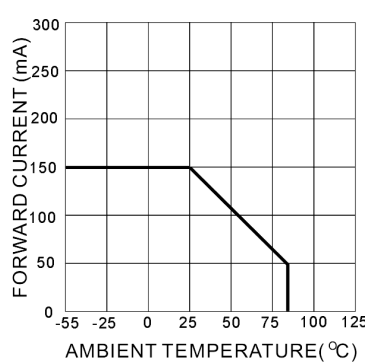
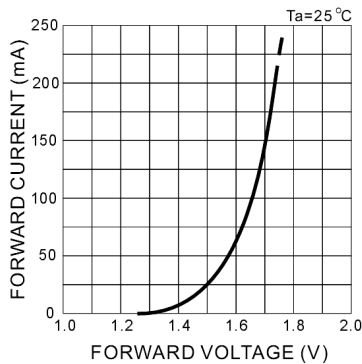
All 850nm LEDs are 1.6-1.7V typical forward voltage at rated current. Appropriate LED heatsinking is required for maximum performance and life span.



**LED CAUTIONS AND SAFETY:**

High intensity invisible infrared LED light source. **DO NOT STARE DIRECTLY INTO LED.**  
**DO NOT EXCEED MAXIMUM LED CURRENT.**

Proper ESD protection and handling required. Do not expose LEDs to greater than 85°C during normal operation.

**Dimensions:**

**5mm LED 20 degrees**

**5mm LED 35 degrees**

**Star 120 degrees**
**Performance Parameters:**
**5mm T1 ¼ Infrared LED.**

**Star PCB infrared LED.**
