

## Thermal Design Requirements for LED product

Temperature control is of paramount importance while designing LED products. The LEDs themselves, as also the electronic parts used inside the LED products by way of drive electronics, are very sensitive to temperature and the life of these products can get severely impaired if thermal design rules are not followed. The following guide line is recommended for the design of LED products:

Component	Temperature Limit (Degrees C) @25degC ambient
LED Cathode	85
ELCO (rated 105degC)	85
IC	115
Winding	115
Drum	115
Bridge	115
Vcc Elco	85
Output Diode	115
Vcc Diode	115
Inner Al body	85

*Figure 12: Temperature guidelines for designing good quality LED products*