

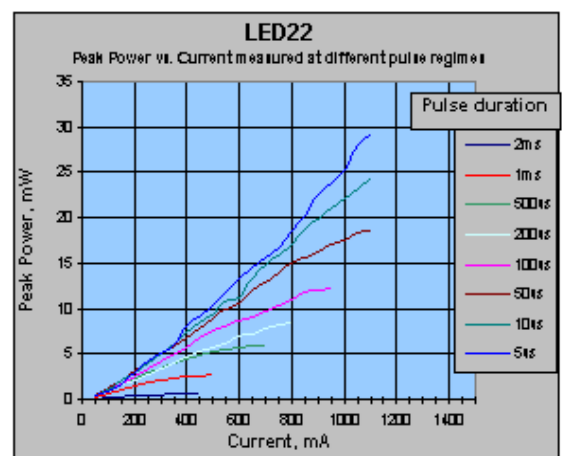
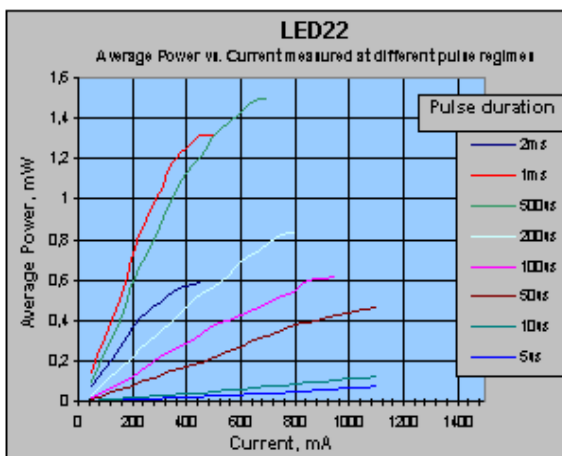
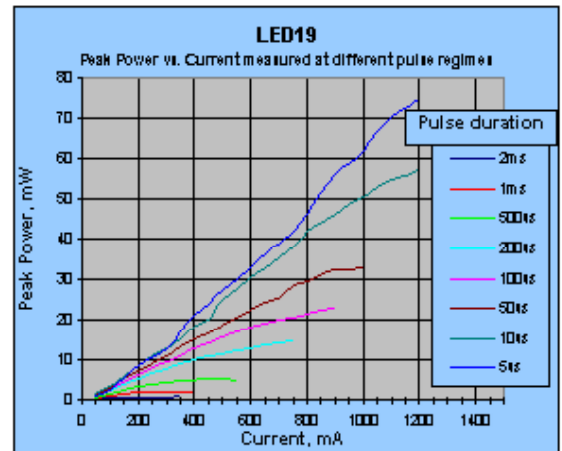
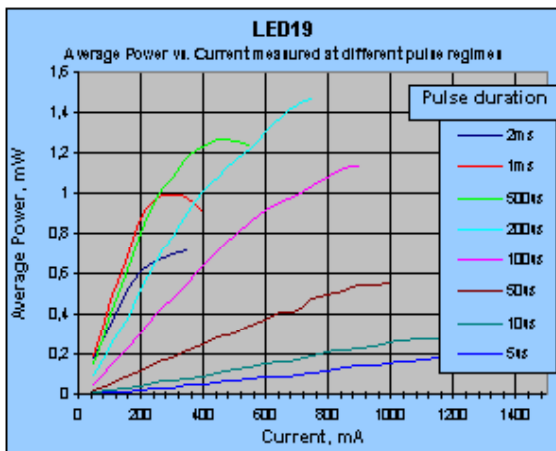


## LED Pulse Operation Mode

### Pulse Dependences of Optical Characteristics

Power characteristics of Light Emitting Diodes in different pulse regimes strongly depend on duty cycle. For receiving of maximum average power we recommend using of pulse regimes with duty cycle 50% or 25%, (but not hard CW where heating decreases power). For receiving of maximum peak power we recommend using of short pulse (less then 50 ms).

Here are presented typical average vs. current and peak power vs. current characteristics of LED19 and LED22 measured at different pulse regimes in the range  $5 \mu\text{s} \div 2 \text{ms}$ .



These characteristics are measured at repetition rate 500 Hz. 50% duty cycle corresponds to 1 ms pulse duration. Average vs. current and peak power vs. current characteristics for models: LED16, LED17, LED18, LED20, LED21 and LED23 are similar.