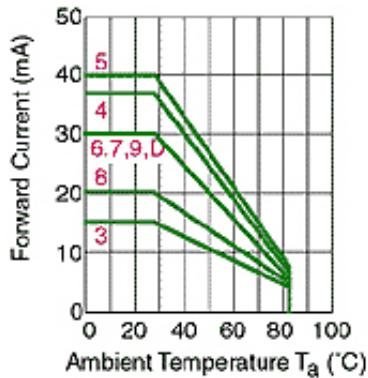
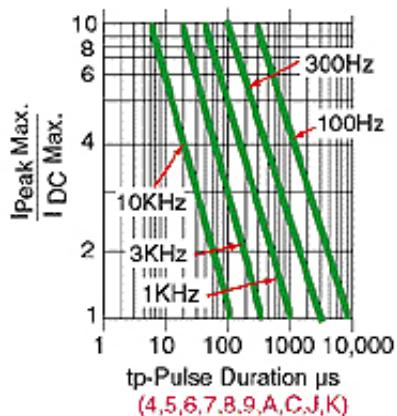


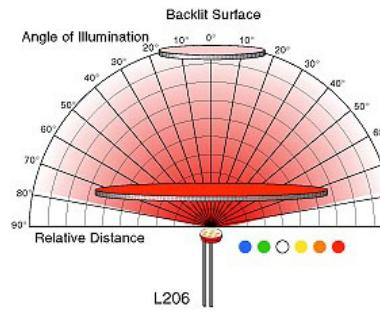
FORWARD CURRENT VS AMBIENT AIR TEMPERATURE
 Red 5, Ultra Red 4, HE Red 6, Orange 7,
 HE Green 9, Ultra Blue D, Yellow 8, Bright Red 3



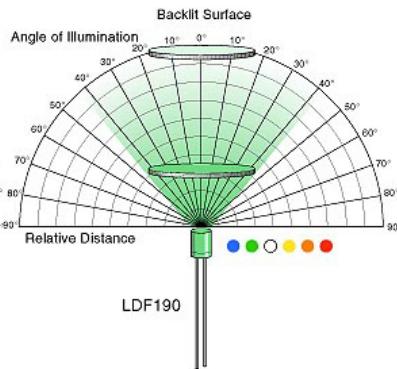
Maximum Tolerable Peak Current vs Pulse Duration
 Ultra Red, Red, HE Red, Orange, Yellow, HE Green,
 Ultra Green (523nm), Ultra Green (502nm), Pure Blue, Ultra Blue



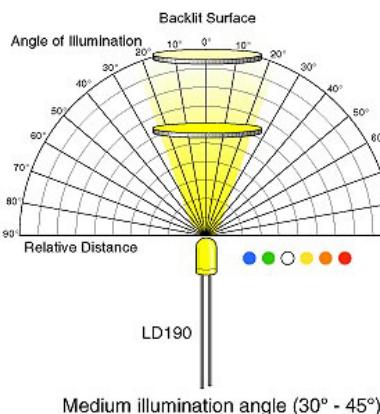
BACKLIGHTING SURFACES USING LEDS



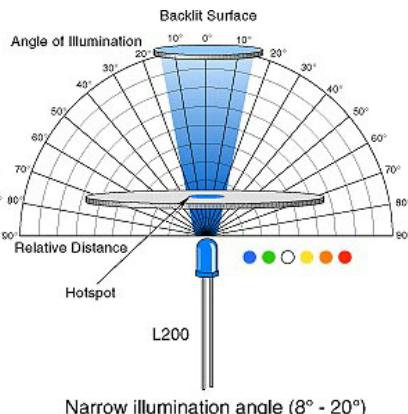
Extra wide illumination angle (160°)
 Very short illumination distance



Wide illumination angle (120°)
 Short illumination distance

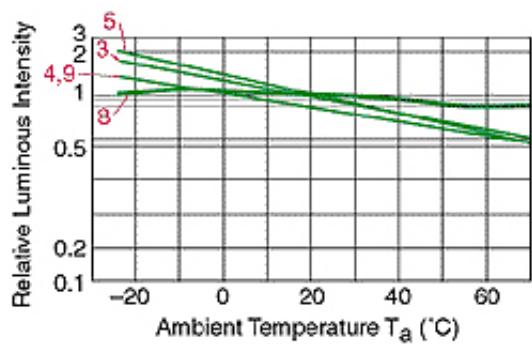


Medium illumination angle (30° - 45°)
 Medium illumination distance

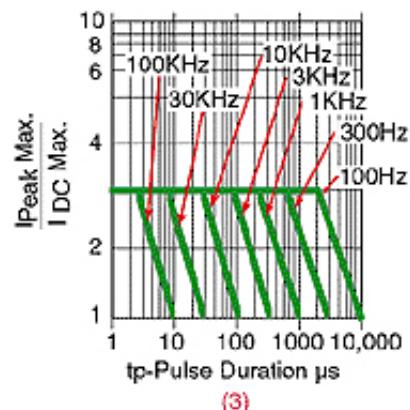


Narrow illumination angle (8° - 20°)
 Long illumination distance

RELATIVE LUMINOUS INTENSITY VS AMBIENT TEMPERATURE
 Red 5, Bright Red 3, Ultra Red 4, HE Green 9, Yellow 8



Bright Red



LED'S CHROMATIC CHART

CIE Chromaticity diagram. Mono Chromatic colors are located on the perimeter and white colors are located in the center of the diagram

