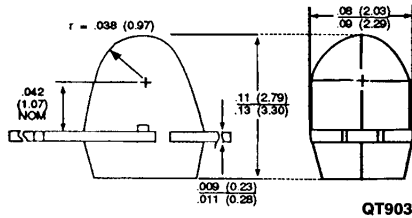
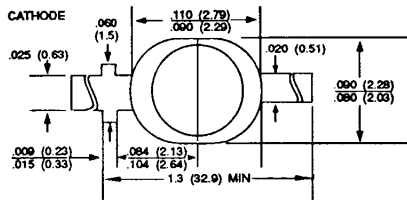




**SUBMINIATURE T-3/4  
RESISTOR LAMPS**

**RED MR5000/5010/5020  
YELLOW MR5310  
GREEN MR5410**

**PACKAGE DIMENSIONS**



- NOTES:  
 1. ALL DIMENSIONS IN INCHES (mm)  
 2. TOLERANCES ± .010 INCH UNLESS SPECIFIED

**DESCRIPTION**

These T-3/4 LED lamps contain an integral resistor which is in series with the emitter chip. This construction allows for operation in circuits with 5 volt supply voltage; without the use of an external current limiting resistor. Color tinted, diffused epoxy packages are used for all lamps in this group.

**FEATURES**

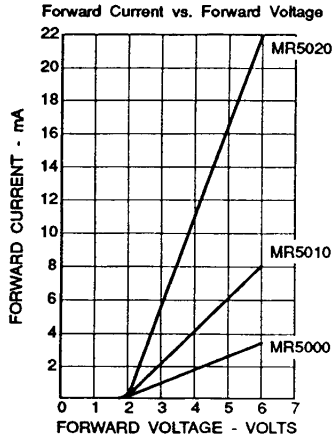
Applications include circuit board status indication; especially in TTL circuits. They allow for savings in component/assembly costs. The lamps are compatible with vapor phase reflow surface mount and conventional solder assembly.

- Integral Current Limiting Resistor (No external resistor required)
- Operates with 5 Volt Supply
- All Colors
  - MR5000/5010/5020 Red Diffused
  - MR5310 Yellow Diffused
  - MR5410 Green Diffused
- Subminiature Package
- Solid-State Reliability

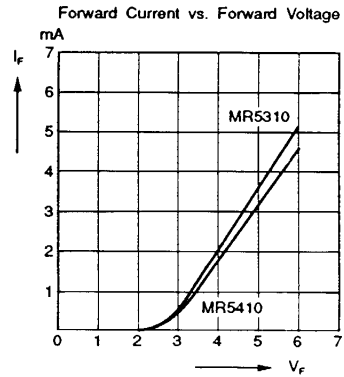
<b>PHYSICAL CHARACTERISTICS</b>		
<b>TYPE</b>	<b>SOURCE COLOR</b>	<b>LENS COLOR</b>
MR5000	Red	Red Diffused
MR5010	Red	Red Diffused
MR5020	Red	Red Diffused
MR5310	Yellow	Yellow Diffused
MR5410	Green	Green Diffused

**TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES**  
(TA = 25°C Unless Otherwise Specified)

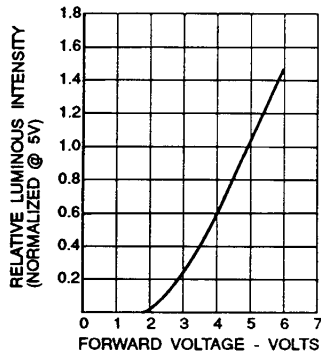
**Red MR5000/5010/5020**



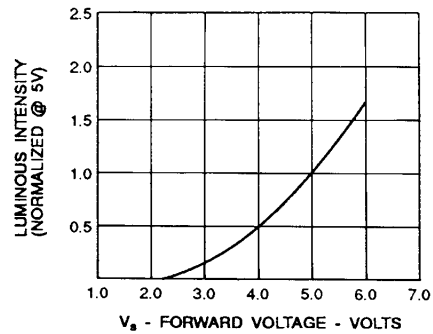
**Green MR5410  
Yellow MR5310**



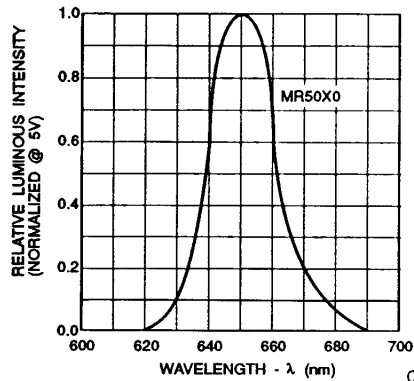
**Relative Luminous Intensity vs. Forward Voltage**



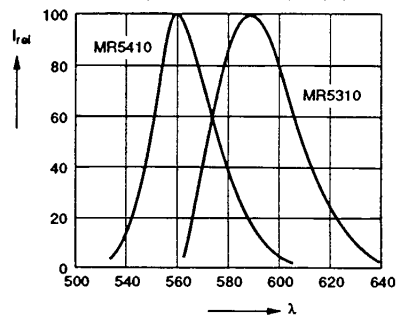
**Relative Luminous Intensity vs. Forward Voltage**



**Spectral Distribution**

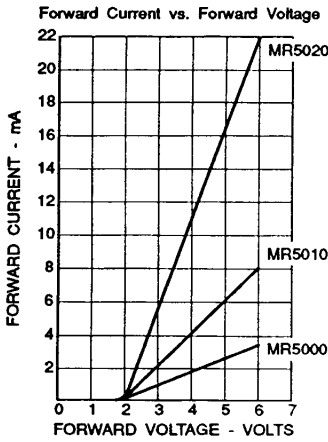


**Relative Spectral Emission  $I_{rel} = f(\lambda)$**

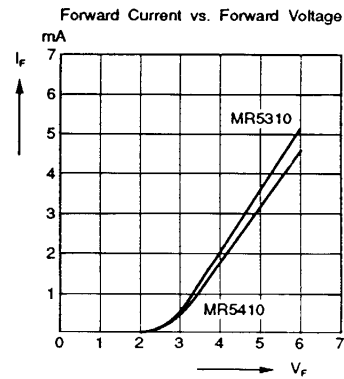


**TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES**  
(TA = 25°C Unless Otherwise Specified)

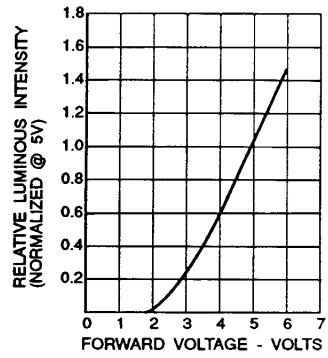
**Red MR5000/5010/5020**



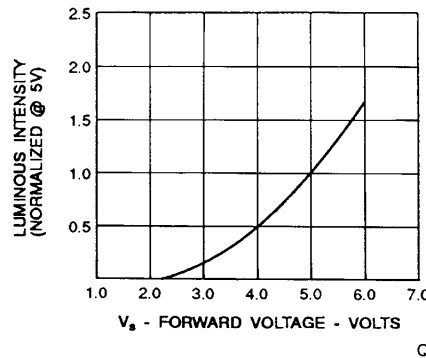
**Green MR5410  
Yellow MR5310**



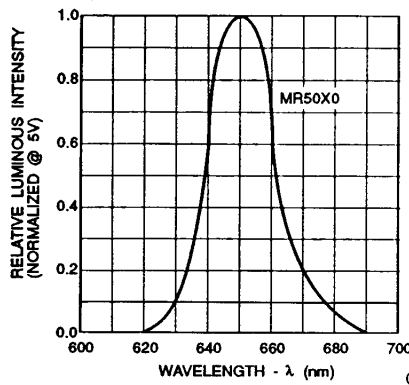
**Relative Luminous Intensity vs. Forward Voltage**



**Relative Luminous Intensity vs. Forward Voltage**



**Spectral Distribution**



**Relative Spectral Emission  $I_{rel} = f(\lambda)$**

