

## MT0318-WH

### Features

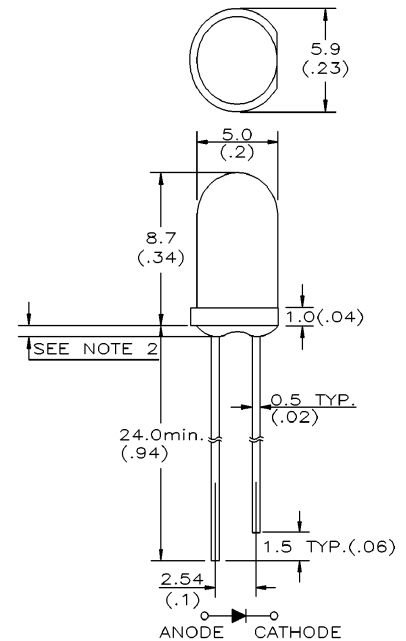
High Intensity  
 Reliable Rugged  
 5mm Package  
 Low Current Requirements  
 IC Compatible

### Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I <sub>F</sub>	20	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	80.00	mW
Operating Temperature	T <sub>opr</sub>	-25 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature	T <sub>sol</sub>	260	°C
Soldering Time	-	for 3 sec. max	-

### Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	-	3.60	4.00	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	50	A
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA	3530.00	5880.00	-	mcd
Viewing Angle	2θ <sup>1/2</sup>	-	-	10°	-	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =20mA	-	465	-	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	-	X=.31, Y=.32	-	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =20mA	-	28	-	nm



### Notes :

1. All dimensions are in millimeters (inches).
2. Protruded resin under flange is 1.0mm (.04" ) max.
3. Tolerance is ±0.25mm (0.01" ) unless otherwise noted.

### Company Headquarters

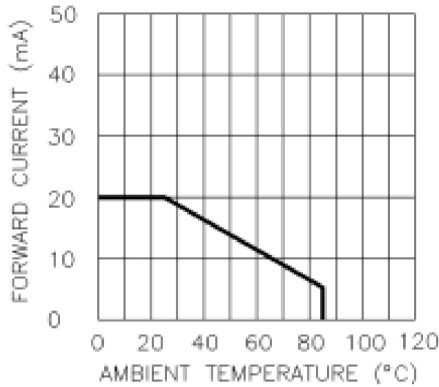
3 Northway Lane North  
 Latham, New York 12110  
 Toll Free: 800.984.5337  
 Fax: 518.785.4725

### West Coast Sales Office

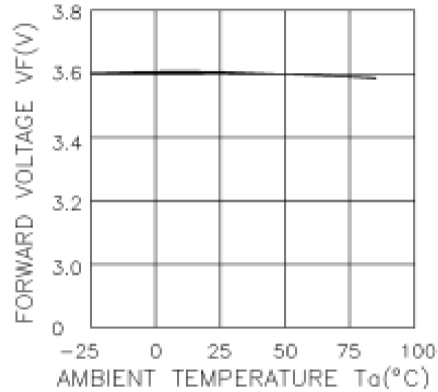
950 South Coast Drive, Suite 225  
 Costa Mesa, California 92626  
 Toll Free: 800.984.5337  
 Fax: 714.850.9314

**MT0318-WH Graphs**

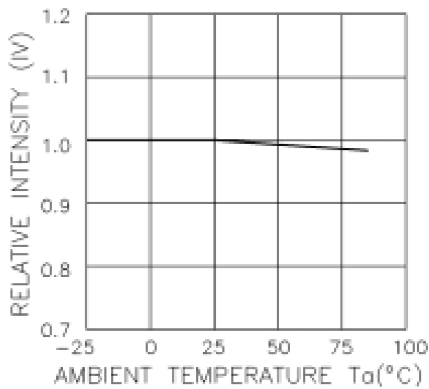
**Typical Electrical / Optical Characteristics Curves :**



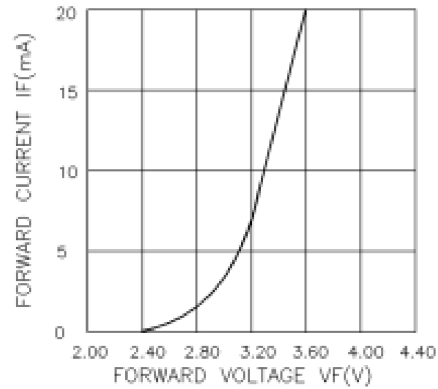
**Forward Current vs. Ambient Temperature**



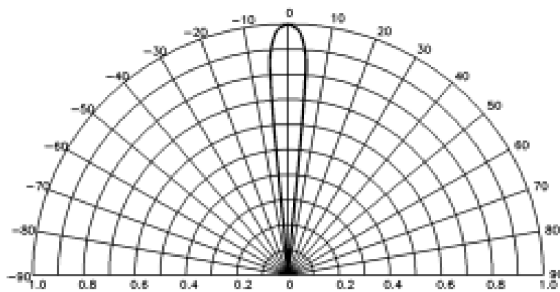
**Forward Voltage vs. Ambient Temperature**



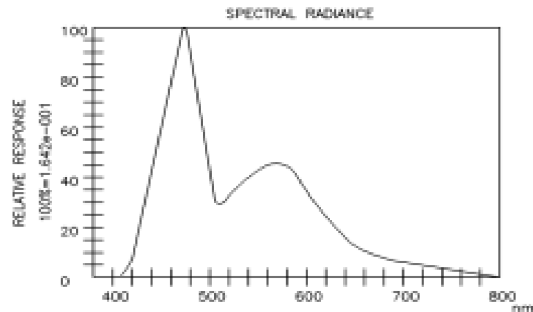
**Relative Intensity vs. Ambient Temperature**



**Forward Current vs. Forward Voltage**



**Radiation Diagram**



**Luminous Spectrum (Ta=25°C)**