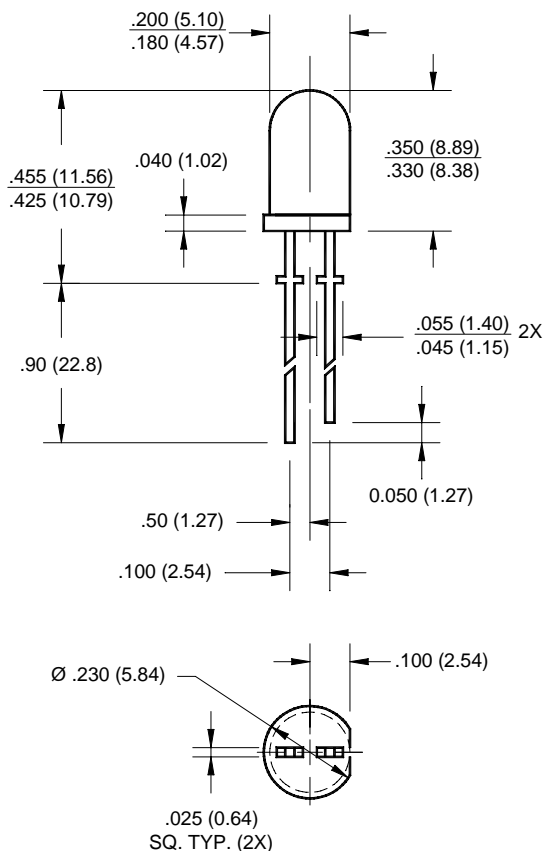


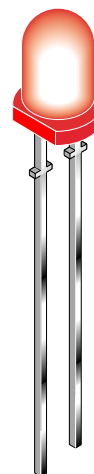
RED MR3050/MR3051 TINTED
HIGH EFFICIENCY RED MR3750/MR3751 TINTED
YELLOW MR3350/MR3351 TINTED
GREEN MR3450/MR3451 TINTED

PACKAGE DIMENSIONS



FEATURES

- Integral current limiting resistor (No external resistor required)
- Operates with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid state reliability



DESCRIPTION

These T-1 3/4 LED lamps contain an integral resistor. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of an external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

NOTES:

ALL DIMENSIONS ARE IN INCHES (mm).

ABSOLUTE MAXIMUM RATING (T_A =25°C)

Parameter	RED/HER/YELLOW	RED/HER/YELLOW	GREEN	GREEN	UNITS
	5 VOLT LAMPS	12 VOLT LAMPS	5 VOLT LAMPS	12 VOLT LAMPS	
DC Forward Current	7.5	15	7.5	15	mA
Lead Soldering Time at 260° C	5	5	5	5	sec
Reverse Breakdown Voltage	5.0	5.0	5.0	5.0	I _R = 100μA
Operating Temperature	-40 to +100	-40 to +100	-20 to +100	-20 to +100	°C
Storage Temperature	-55 to +100	-55 to +100	-50 to +100	-50 to +100	°C

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Parameter	RED	HER	YELLOW	GREEN	Condition
	MR3050/1	MR3750/1	MR3350/1	MR3450/1	
Luminous Intensity (mcd)					V _F = 5V / V _F = 12V
Minimum	1.0	1.5	1.5	1.5	
Typical	2.0	4.0	4.0	4.0	
Forward Current (mA)					V _F = 5V / V _F = 12V
Typical	13/13	10/13	10/13	12/13	
Maximum	20/20	15/20	15/20	15/20	
Peak Wavelength (nm)	660	635	585	565	V _F = 5V / V _F = 12V
Spectral Line Half Width (nm)	24	40	36	28	V _F = 5V / V _F = 12V
Viewing Angle (°)	60	60	60	60	V _F = 5V / V _F = 12V

TYPICAL PERFORMANCE CURVES ($T_A = 25^\circ\text{C}$)

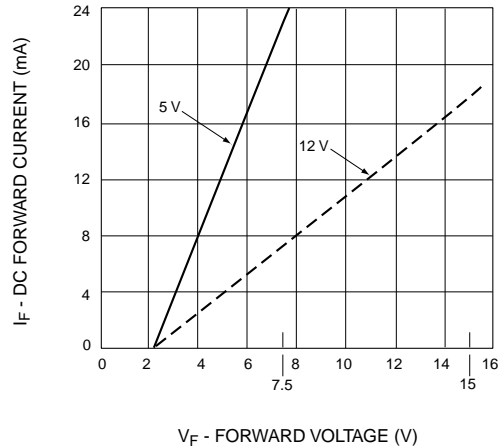


Fig. 1 I - V Curve

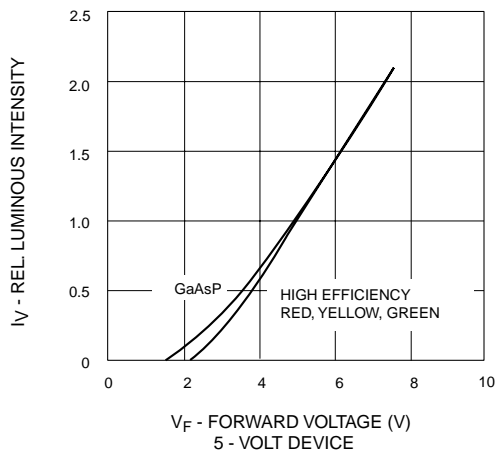


Fig. 2A Luminous Intensity vs Forward Voltage

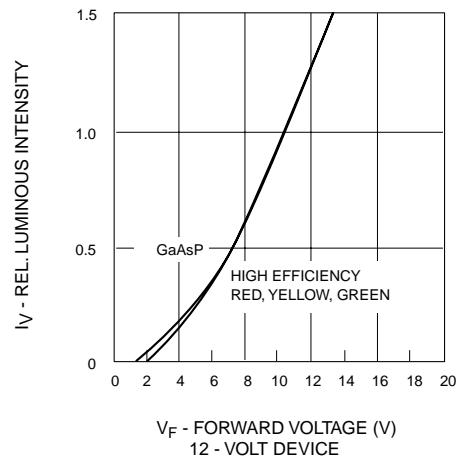


Fig. 2B Luminous Intensity vs Forward Voltage

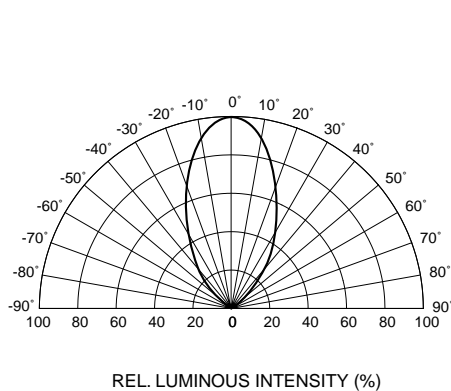


Fig. 3 Radiation Diagram

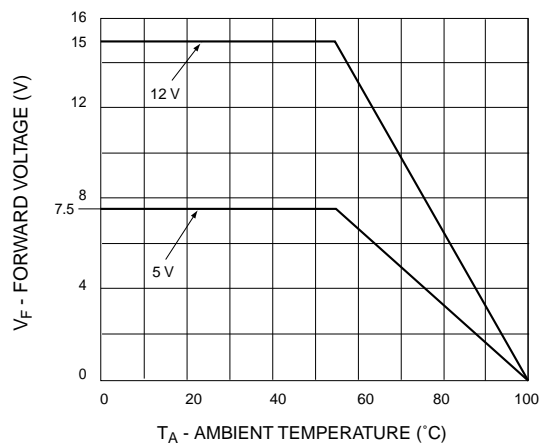


Fig. 4 Maximum Allowed Forward Voltage vs Ambient Temperature

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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MR3050

Red Tinted Integrated T-1 3/4 Resistor Lamp 5 Volt and 12 Volt Series

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These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability

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Testing conditions

- I_V & I_F @ $V_F = 12 V$

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MR30509.MP7	Full Production	\$0.211	Purchase	T-1 3/4	BOX
MR30509.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR30509.MP6	Full Production	\$0.211	Purchase	T-1 3/4	BOX
MR3050	Full Production	\$0.182	Purchase	T-1 3/4	BOX
MR30509.MP90	Full Production	\$0.458	Purchase	T-1 3/4	BOX
MR30509.MP5	Full Production	\$0.211	Purchase	T-1 3/4	BOX
MR30509.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR30509.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX

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MR3051
Yellow Tinted Integrated T-1 3/4 Resistor Lamp 5 Volt and 12 Volt Series

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General description

These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability

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Testing conditions

- I_V & I_F @ $V_F = 12\text{ V}$

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Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
MR30519.MP5	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR30519.MP6	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR30519.MP7	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR30519.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR30519.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR30519.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR3051	Full Production	\$0.182	Purchase	T-1 3/4	BOX

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MR3350
Yellow Tinted Integrated T-1 3/4 Resistor Lamp 5 Volt and 12 Volt Series

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General description

These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability

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Testing conditions

- I_V & I_F @ $V_F = 12\text{ V}$

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Product status/pricing/packaging

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MR33509.MP5	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR33509.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR33509.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR33509.MP93	Full Production	\$0.458	Purchase	T-1 3/4	BOX
MR33509.MP6	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR33509.MP7	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR33509.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR3350	Full Production	\$0.193	Purchase	T-1 3/4	BOX

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MR3351
 High Efficiency Green Tinted Integrated T-1 3/4 Resistor Lamps 5 Volt and 12 Volt Series

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General description

These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability


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Testing conditions

- I_V & I_F @ $V_F = 12\text{ V}$

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Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
MR33519.MP5	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR33519.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR33519.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR33519.MP6	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR3351	Full Production	\$0.193	Purchase	T-1 3/4	BOX
MR33519.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR33519.MP7	Full Production	\$0.238	Purchase	T-1 3/4	BOX

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MR3450

High Efficiency Green Tinted Integrated T-1 3/4 Resistor Lamps 5 Volt and 12 Volt Series

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General description

These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability

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Testing conditions

- I_V & I_F @ $V_F = 12$ V

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MR34509.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR34509.MP94	Full Production	\$0.458	Purchase	T-1 3/4	BOX
MR34509.MP7	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR34509.MP6	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR3450	Full Production	\$0.195	Purchase	T-1 3/4	BOX
MR34509.MP5	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR34509.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR34509.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX

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MR3451
 High Efficiency Red Tinted Integrated T-1 3/4 Resistor Lamp 5 Volt and 12 Volt Series

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General description

These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability


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Testing conditions

- I_V & I_F @ $V_F = 12\text{ V}$

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MR34519.MP6	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR34519.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR34519.MP5	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR34519.MP7	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR34519.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR3451	Full Production	\$0.195	Purchase	T-1 3/4	BOX
MR34519.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX

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MR3750
High Efficiency Red Tinted Integrated T-1 3/4 Resistor Lamp 5 Volt and 12 Volt Series

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General description

These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability

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Testing conditions

- I_V & I_F @ $V_F = 12\text{ V}$

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
MR3750	Full Production	\$0.195	Purchase	T-1 3/4	BOX
MR37509.MP7	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR37509.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR37509.MP97	Full Production	\$0.458	Purchase	T-1 3/4	BOX
MR37509.MP5	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR37509.MP6	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR37509.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR37509.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX

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MR3751
Red Tinted Integrated T-1 Resistor Lamp 5 Volt and 12 Volt Series

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General description

These T-1 3/4 size LED lamps contain integral resistors. Operation at 5 volts (MR3X50) or 12 volts (MR3X51) is possible without the use of external current limiting resistor. The epoxy lens is tinted and diffused to provide color identification and a wide viewing angle.

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Features

- Integral current limiting resistor (No external resistor required)
- Operate with 5 volt & 12 volt supplies
- Wide viewing angle
- Solid-state reliability

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Testing conditions

- I_V & I_F @ $V_F = 12\text{ V}$

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
MR37519.MP5	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR3751	Full Production	\$0.195	Purchase	T-1 3/4	BOX
MR37519.MP6	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR37519.MP8B	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR37519.MP7	Full Production	\$0.238	Purchase	T-1 3/4	BOX
MR37519.MP8A	Full Production	\$0.89	Purchase	T-1 3/4	BOX
MR37519.MP8	Full Production	\$0.89	Purchase	T-1 3/4	BOX

* Fairchild 1,000 piece Budgetary Pricing

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