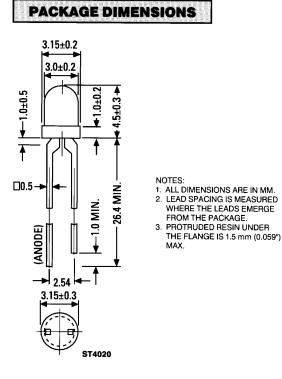


INTEGRATED T-1 RESISTOR LAMPS 5 VOLT and 12 VOLT SERIES

RED **MR5060** TINTED/**MR5660** UNTINTED HIGH EFFICIENCY RED **MR5760/MR5761** TINTED YELLOW **MR5360/MR5361** TINTED HIGH EFFICIENCY GREEN **MR5460/MR5461** TINTED



DESCRIPTION

This group of T-1 size LED lamps contain integral resistors. Operation at 5 volts (MR5X60 Part Nos.) or 12 volts (MR5X61 Part Nos.) is possible without the use of external current limiting resistors. Color tinted, diffused epoxy packages are used for all the lamps in this group; with the exception of the MR5660, which is no tint - but diffused.

FEATURES

- Integral Current Limiting Resistor (No external resistor required)
- TTL Compatible
- Operate with 5 Volt & 12 Volt Supplies
- All Colors Red, HER, Yellow, Green
- Wide Viewing Angle
- Solid-State Reliability

PHYSICAL CHARACTERISTICS								
ТҮРЕ	SOURCE COLOR	LENS COLOR						
MR5060	Red	Red Diffused						
MR5660	Red	Clear Diffused						
MR5760	High Efficiency Red	Red Diffused						
MR5761	High Efficiency Red	Red Diffused						
MR5360	Yellow	Yellow Diffused						
MR5361	Yellow	Yellow Diffused						
MR5460	High Efficiency Green	Green Diffused						
MR5461	High Efficiency Green	Green Diffused						



INTEGRATED T-1 RESISTOR LAMPS 5 VOLT and 12 VOLT SERIES

SEMICONDUCTOR

				RI	ED			EF	HIGH FICIEN RED					UNITS	TEST CONDITION
PARAMETER SYMBOL	SYMBOL	MR5060		0	MR5660		MR5760		MR5761		1				
		MIN.	TYP.	MAX	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		
Luminous Intensity	l _v										1.5	4.0		mcd	V _F =12 V
Luminous Intensity	l _v	0.8	1.5		0.8	1.5		1.5	4.0					mcd	V _F =5 V
Total Viewing Angle	201/2		60			60	-		60			60		Deg	
Peak Wavelength	λр		655			655			635			635		nm	
Spectral Line Halfwidth	Δλ1/2		24			24			40	-		40		nm	
Forward Current 12V Devices	I _F											13	20	mA	V _F =12 V
Forward Current 5V Devices	I _F		13	20		13	20		10	15				mA	$V_F = 5 V$
Reverse Breakdown Voltage	V _R	5.0			5.0			5.0			5.0				I _R =100μA

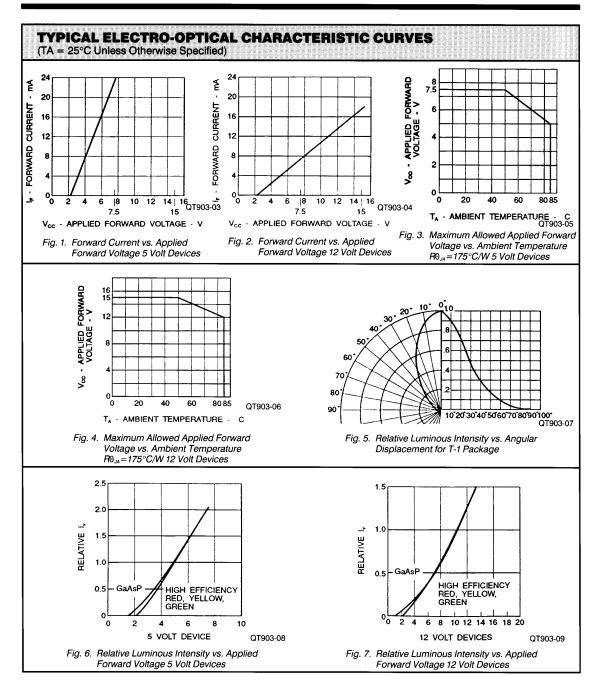
		YELLOW					HIGH EFFICIENCY GREEN						UNITS	TEST CONDITION	
PARAMETER SYMBO	SYMBOL	MR5360		0	MR5361		MR5460			MR5461					
		MIN.	TYP.	MAX	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		
Luminous Intensity	١v				1.5	4.0					1.5	4.0		mcd	V _F =12 V
Luminous Intensity	l _v	1.5	4.0					1.5	4.0					mcd	V _F =5 V
Total Viewing Angle	201/2		60			60			60			60		Deg	
Peak Wavelength	λр		583			583			565			565		nm	
Spectral Line Halfwidth	Δλ1/2		36			36			28			28		nm	
Forward Current 12V Devices	I _F					13	20					13	20	mA	V _F =12 V
Forward Current 5V Devices	l _F		10	15					12	15				mA	$V_F = 5 V$
Reverse Breakdown Voltage	V _R	5.0			5.0			5.0			5.0				I _в =100μA

ABSOLUTE MAXIMUM RATINGS (TA = 25°C Unless Otherwise Specified)									
	RED/HER/YELLOW 5 VOLT LAMPS	RED/HER/YELLOW 12 VOLT LAMPS							
DC Forward Voltage (T _A =25°C)	7.5 Volts	15 Volts	7.5 Volts	15 Volts					
Reverse Voltage (I_n =100 μ A) Operating Temperature Range Storage Temperature Range	5 Volts −40°C to +85°C −55°C to +100°C	5 Volts −40°C to +85°C −55°C to +100°C	5 Volts −20°C to +85°C −55°C to +100°C	5 Volts −20°C to +85°C −55°C to +100°C					
Lead Soldering Temperature		260°C for	5 seconds						



INTEGRATED T-1 RESISTOR LAMPS 5 VOLT and 12 VOLT SERIES

SEMICONDUCTOR





INTEGRATED T-1 REISTOR LAMPS 5 VOLT and 12 VOLT SERIES

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