

Excellent Integrated System Limited

Stocking Distributor

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Fairchild Semiconductor MR5360

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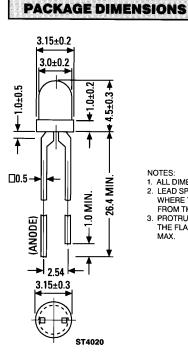


Distributor of Fairchild Semiconductor: Excellent Integrated System Limited Datasheet of MR5360 - LED YELLOW DIFF 3MM ROUND T/H Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



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



NOTES

- NOTES: 1. ALL DIMENSIONS ARE IN MM. 2. LEAD SPACING IS MEASURED WHERE THE LEADS EMERGE FROM THE PACKAGE. 3. PROTRUDED RESIN UNDER THE FLANGE IS 1.5 mm (0.059") MAY
- MAX.

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.



- 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						





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SEMICONDUCTOR

PARAMETER		RED						EF	HIGH FICIEN RED					UNITS	TEST CONDITION
	SYMBOL	MR5060			MR5660			MR5760			MR5761		1		
		MIN.	TYP.	MAX	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		
Luminous Intensity	۱ _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	11140
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 ₈ =100μA

PARAMETER SYM		YELLOW					HIGH EFFICIENCY GREEN						UNITS	TEST CONDITION	
	SYMBOL	MR5360			MR5361			MR5460			MR5461		1		· · · · · ·
		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	λp		583			583			565			565		nm	
Spectral Line Halfwidth	Δ λ1/2		36			36			28			28		nm	
Forward Current 12V Devices	l _F					13	20					13	20	mA	V _F =12 V
Forward Current 5V Devices	I _F		10	15					12	15				mA	V _F =5 V
Reverse Breakdown Voltage	V _R	5.0			5.0			5.0			5.0				I _R =100μA

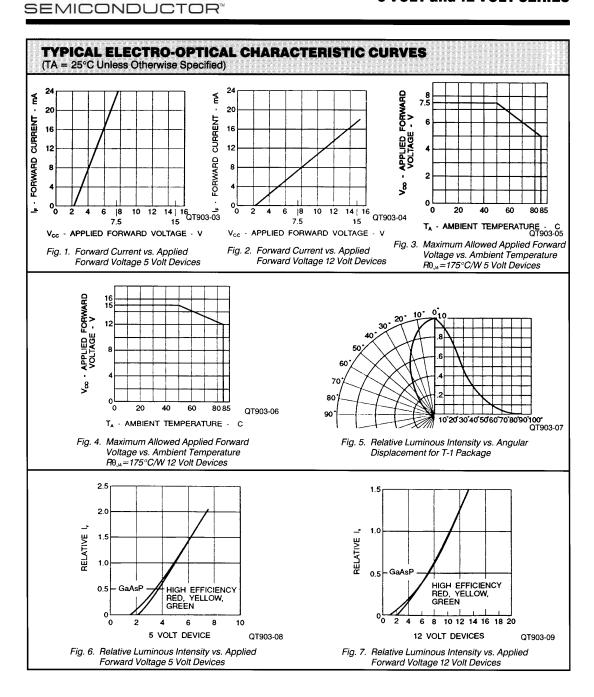
ABSOLUTE MAXIMUM RATINGS (TA = 25°C Unless Otherwise Specified)										
	RED/HER/YELLOW 5 VOLT LAMPS	RED/HER/YELLOW 12 VOLT LAMPS	GREEN 12 VOLT LAMPS							
DC Forward Voltage (T ₄ =25°C)	7.5 Volts	15 Volts	7.5 Volts	15 Volts						
Reverse Voltage (I_n =100 μ A) Operating Temperature Range Storage Temperature Range Lead Soldering Temperature	5 Volts -40°C to +85°C -55°C to +100°C	5 Volts -20°C to +85°C -55°C to +100°C								



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