Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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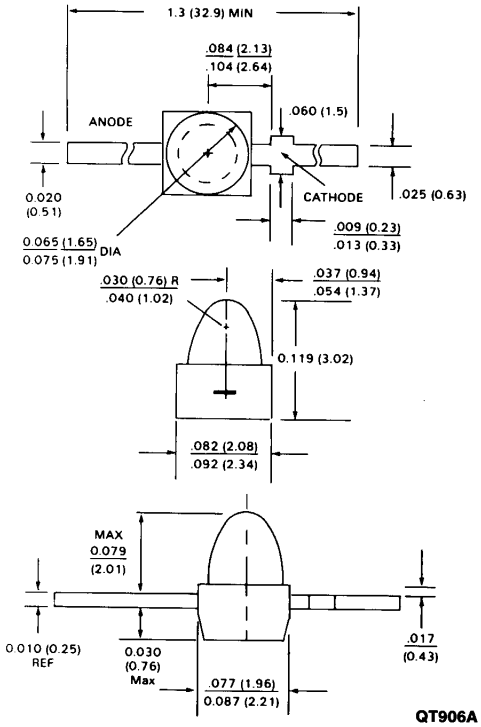
FAIRCHILD
SEMICONDUCTOR™

SUBMINIATURE T-¾
5 - VOLT RESISTOR LAMPS

HIGH EFFICIENCY RED **HLMP-6600/20**
YELLOW **HLMP-6700/20**
HIGH EFFICIENCY GREEN **HLMP-6800/20**

PACKAGE DIMENSIONS



QT906A

NOTES:
1. ALL DIMENSIONS IN INCHES (mm)
2. TOLERANCE ARE ±.010 INCH UNLESS OTHERWISE SPECIFIED

DESCRIPTION

These T-¾ square based LEDs contain an integral resistor which is in series with the emitter chip. This construction allows for the operation in circuits with 5V supply voltage; without the use of an external resistor. Color tinted, diffused epoxy packages are used for these lamps.

FEATURES

- Integral current limiting resistor.
- TTL compatible
- Wide viewing angle
- Solid-state reliability
- SMT lead formings and T&R available

ABSOLUTE MAXIMUM RATING (T_A = 25°C unless otherwise specified)

PARAMETER	HER	YELLOW	GREEN	UNITS
Power dissipation	135	85	135	mW
DC forward voltage	6	6	6	V
Lead soldering time at	3	3	3	Sec
Surface mount reflow soldering				
Convective IR at 235°C				90 Seconds
Vapour phase at 213°C				3 Minutes
Operating temperature range				−40°C to 85°
Storage temperature range				−55°C to 100°C

TYPICAL THERMAL CHARACTERISTICS

Thermal resistance $Ø_{JA}$	120°C/W

FAIRCHILD
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SUBMINIATURE T-3/4
5 - VOLT RESISTOR LAMPS

ELECTRO-OPTICAL CHARACTERISTICS (T_A = 25°C Unless Otherwise Specified)

PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Forward current - I_F					
HLMP-6600/6700/6800		9.6	13.0	mA	V_F=5 V
HLMP-6620/6720/6820		3.5	5.0	mA	V_F=5 V
Reverse voltage - V_R	5	30		V	I_R=100μA
Viewing angle - 2θ		90		Degree	
Luminous intensity - I_v					
HLMP-6600/6700/6800	1.3	5.0		mcd	V_F=5 V
HLMP-6620/6720/6820	0.8	2.0		mcd	V_F=5 V
Peak wavelength					
HLMP-6600/20		635		nm	
HLMP-6700/20		583		nm	
HLMP-6800/20		565		nm	
Dominant wavelength					
HLMP-6600/20		626		nm	
HLMP-6700/20		585		nm	
HLMP-6800/20		569		nm	
Spectral line half-width					
HLMP-6600/20		40		nm	
HLMP-6700/20		36		nm	
HLMP-6800/20		28		nm	
Capacitance - C					
HLMP-6600/20		11		pF	V_F=, F=1 MHz
HLMP-6700/20		15		pF	V_F=, F=1 MHz
HLMP-6800/20		18		pF	V_F=, F=1 MHz

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

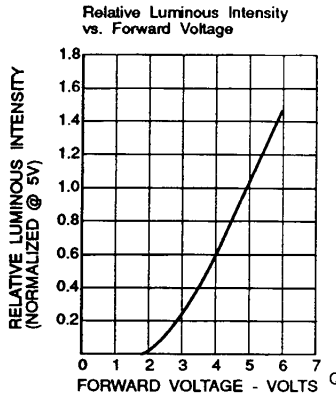

Fig. 1. Relative Luminous Intensity vs. Forward Voltage

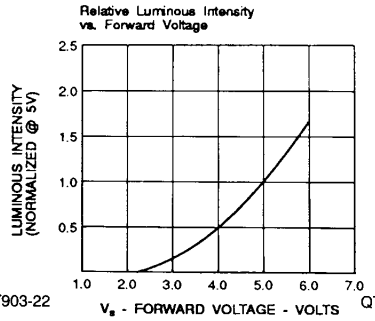

Fig. 2. Relative Luminous Intensity vs. Forward Voltage

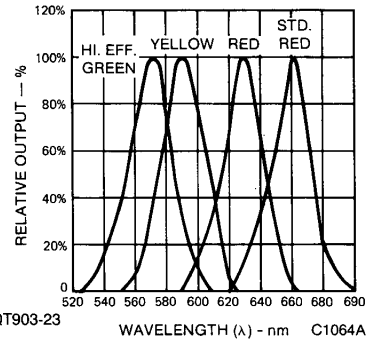

Fig. 3. Spectral Distribution

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SUBMINIATURE T-3/4
5 - VOLT RESISTOR LAMPS

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