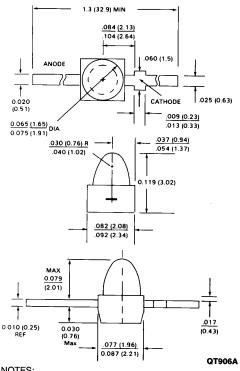




HIGH EFFICIENCY RED HLMP-6600/20 **YELLOW HLMP-6700/20** HIGH EFFICIENCY GREEN HLMP-6800/20

PACKAGE DIMENSIONS



DESCRIPTION

These T-3/4 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

FEATURES

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

NOTES:

- ALL DIMENSIONS IN INCHES (mm)
 TOLERANCE ARE ±.010 INCH UNLESS OTHERWISE SPECIFIED

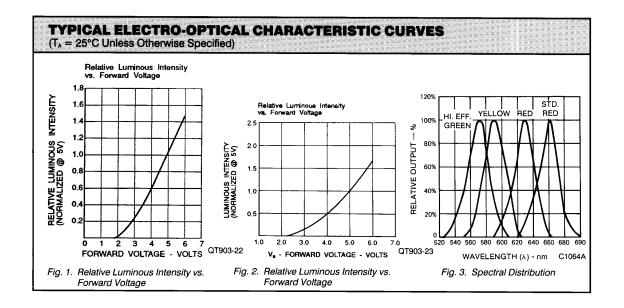
PARAMETER	HER	YELLOW	GREEN	UNITS
Power dissipation	135	85	135	mW
DC forward voltage	6	6	6	V
_ead soldering time at	3	3	3	Sec
Surface mount reflow soldering			•	000
Convective IR at 235°C				90 Seco
Vapour phase at 213°C				3 Min
Operating temperature range				-40°C to
Storage temperature range				=40 € to

TYPICAL THERMAL CHARACTERISTICS	
Thermal resistance Ø _{JA}	120°C/W



SUBMINIATURE T-% 5 - VOLT RESISTOR LAMPS

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		٧	I _R =100μA
Viewing angle - 20		90		Degree	130
Luminous intensity - I _v					
HLMP-6600/6700/6800	1.3	5.0		mcd	$V_{\epsilon}=5 \text{ V}$
HLMP-6620/6720/6820	0.8	2.0		mcd	$V_F = 5 V$
Peak wavelength	-		-0	194.	*
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	7000				
HLMP-6600/20		11		pF	$V_{\epsilon}=$, $F=1$ MHz
HLMP-6700/20		15		pF	$V_F = F = 1 \text{ MHz}$
HLMP-6800/20		18		pF	$V_{\varepsilon}=$, $F=1$ MHz





SUBMINIATURE T-3/4 5 - VOLT RESISTOR LAMPS

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