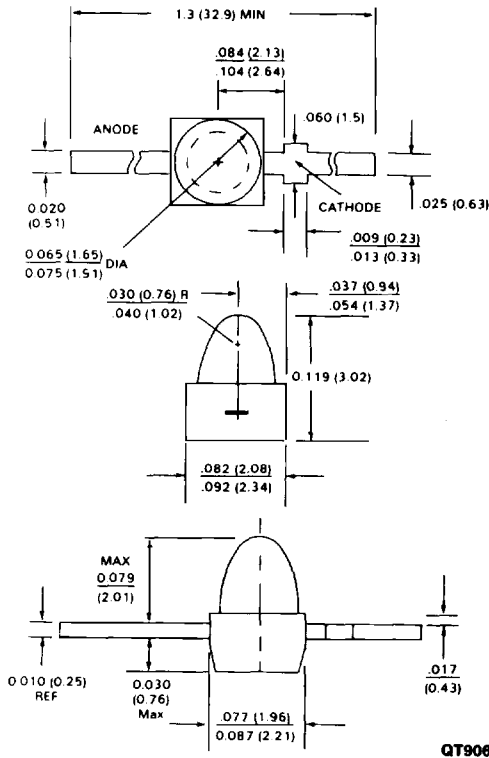


RED MV6000
HIGH EFFICIENCY RED MV6700
YELLOW MV6300
HIGH EFFICIENCY GREEN MV6400

PACKAGE DIMENSIONS



DESCRIPTION

These subminiature lamps are constructed as axial leaded devices. They complement the MV5XBL series. The plastic lamp packages in this series have a "square-base" design; versus a "round" base for the MV5XBL series. The optics of wide-angle beam emission and sharp ON/OFF contrast are derived from the tinted, diffused epoxy lens package.

"YOKE" and "GULL-WING" lead bends and SMT tape & reel versions are available (see separate data sheet).

FEATURES

- Subminiature T-3/4 package
- Low package profile
- Axial leads
- Wide viewing angle
- SMT versions

NOTES:

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

PHYSICAL CHARACTERISTICS

TYPE	SOURCE COLOR	LENS COLOR
MV6000	Red	Red Diffused
MV6700	High Efficiency Red	Red Diffused
MV6300	Yellow	Yellow Diffused
MV6400	High Efficiency Green	Green Diffused

6

MV6000/6700/6300/6400

ELECTRO-OPTICAL CHARACTERISTICS (T_a = 25°C Unless Otherwise Specified)							
PARAMETER	SYMBOL	DEVICE MV	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Luminous intensity	I _v	Standard Red 6000	0.5	1.2		mcd	I _f = 10 mA
		High Efficiency Red 6700	1.0	3.0			
		Yellow 6300	1.0	3.0			
		High Efficiency Green 6400	1.0	3.0			
Total viewing angle	2θ _{1/2}	All		90		Deg	
Peak wavelength	λ _p	Standard Red High Efficiency Red Yellow High Efficiency Green		655 635 583 565		nm	
Spectral line halfwidth	Δλ _{1/2}	Standard Red High Efficiency Red Yellow High Efficiency Green		24 40 36 28		nm	
Forward voltage	V _f	Standard Red High Efficiency Red Yellow High Efficiency Green	1.4 1.5 1.5 1.5	1.6 1.8 2.0 2.0	2.0 3.0 3.0 3.0	V	I _f = 10 mA
Reverse breakdown voltage	V _r	All	5.0			V	I _r = 100 μA

ABSOLUTE MAXIMUM RATINGS (T_a = 25°C Unless Otherwise Specified)					
PARAMETER	HI EFF. RED	YELLOW	STD RED	HI EFF. GREEN	UNITS
	MV6700	MV6300	MV6000	MV6400	
Power dissipation	135	85	100	135	mW
Average forward current	30	20	50	30	mA
Peak forward current (see Note 1)	400	400	1000	90	mA
Lead soldering time at 260°C	3	3	3	3	sec
Storage and operating temperatures	-55°C to +100°C				

NOTE
1. 1μs, PW 0.1% DF

MV6000/6700/6300/6400

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES
($T_A = 25^\circ\text{C}$ Unless Otherwise Specified)

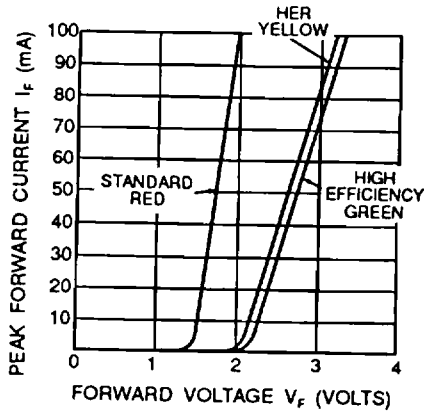


Fig. 1. Forward Current vs. Forward Voltage

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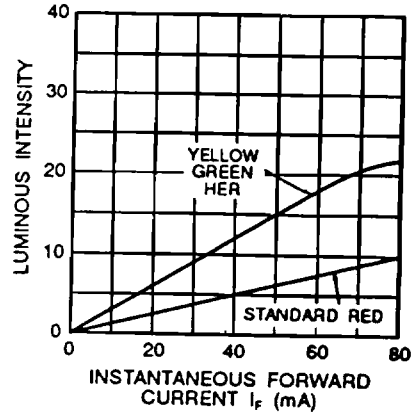


Fig. 2. Luminous Intensity vs. Forward Current

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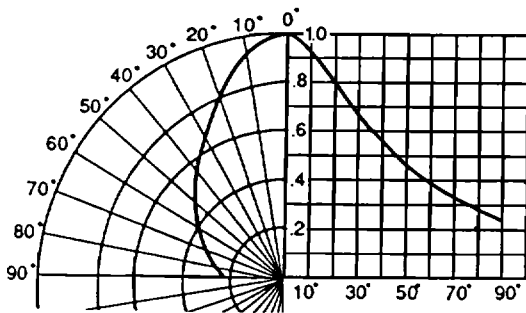


Fig. 3. Relative Luminous Intensity vs. Angular Displacement

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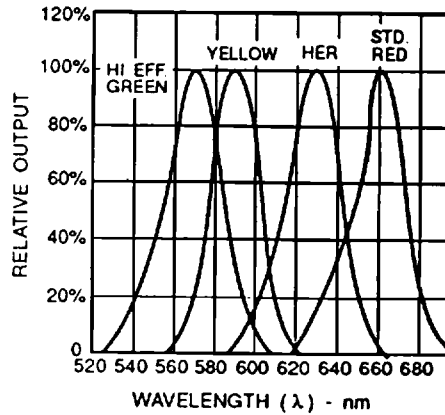


Fig. 4. Spectral Distribution

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6

M16000/6700/6300/6400