



CLEAR LENS T-100 SOLID STATE LAMPS

ELECTRO-OPTICAL CHARACTERISTICS

(25°C Free Air Temperature Unless Otherwise Specified)

PARAMETER	TEST CONDITIONS	UNITS	MV5362X MV5360	MV5462X MV5460	MV5762X MV5760	HLMP-1340	HLMP-1440	HLMP-1540
Forward voltage (V_f) typ. max.	$I_f = 10 \text{ mA}$	V	2.1 3.0	2.1* 3.0*	2.0 3.0	2.2* 3.0*	2.2* 3.0*	2.2* 3.0*
Peak wavelength		nm	585	565	635	635	585	565
Spectral line half width		nm	35	40	45	45	35	40
Capacitance typ.	$f = 1 \text{ MHz}, V = 0$	pF	45	20	45	45	45	20
Reverse voltage (V_R) min.	$I_R = 100 \mu\text{A}$	V	5.0	5.0	5.0	5.0	5.0	5.0
Viewing angle (total) typ.	See Fig. 3	degrees	45	45	45	45	45	45

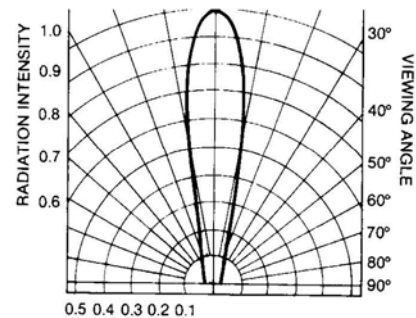
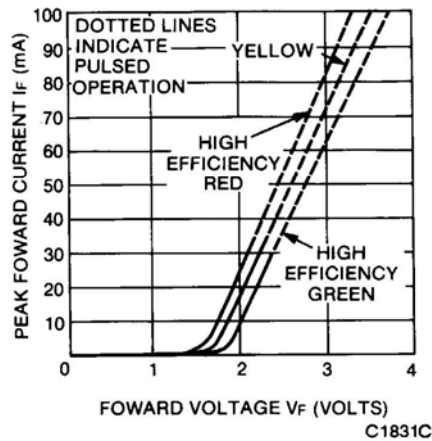
* $I_f = 20 \text{ mA}$

ABSOLUTE MAXIMUM RATING ($T_A = 25^\circ\text{C}$ Unless Otherwise Specified)

Power dissipation	120 mW
Derate linearly from 50°	0.4 mA/°C
Storage and operating temperature	-55°C to +100°C
Lead soldering time at 260°C (1/16 inch from body)	5 sec.
Continuous forward current (MV5360/MV5362X/HLMP-1440=20 mA)	30 mA
Peak forward current (1 μsec pulse, 0.3% duty cycle) (MV5360/MV5362X/HLMP-1440=60 mA)	90 mA
Reverse voltage	5.0 V

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES

(25°C Free Air Temperature Unless Otherwise Specified)



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Fig. 1. Forward Current vs. Forward Voltage

Fig. 2. Relative Luminous Intensity vs. Forward Current

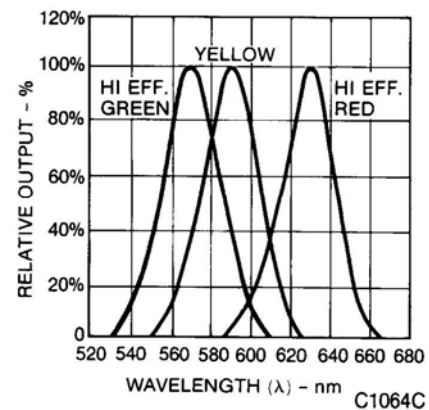
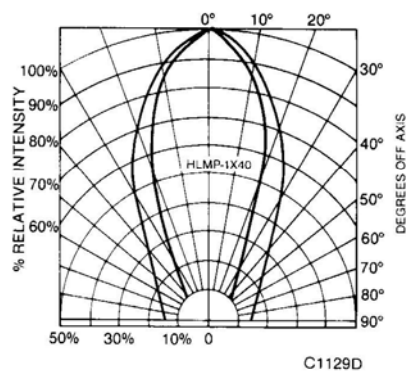


Fig. 3. Spatial Distribution

Fig. 4. Spectral Distribution



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2. A critical component in any component of a life support device or system whose failure to perform can be or (b) reasonably expected to cause the failure of the life device or system, or to affect its safety or effectiveness.