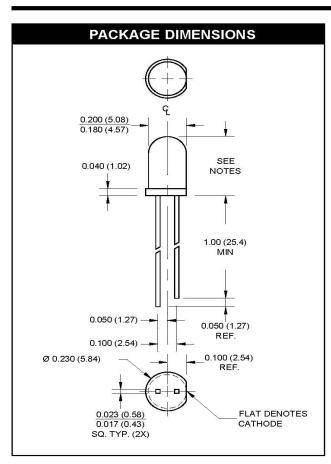


T-1 3/4 (5 mm) SOLID STATE LAMPS

HIGH EFF. RED HIGH EFF. RED HLMP-3300 HLMP-3301 HIGH EFF. RED HIGH EFF. RED STANDARD RED HLMP-3315 HLMP-3316 FLV110



FEATURES

- Popular, general purpose lamps
- Wide and narrow viewing angle devices for direct view or backlighting
- · Solid state reliability
- · Sturdy leads for easy assembly



DESCRIPTION

The HLMP-33XX series consists of high efficiency red T-1 3/4 lamps with a viewing angle of 35° or 65° . FLV110 is a low profile standard red T-1 3/4 lamp with a diffused lens, providing a viewing angle of 70° .

NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (mm).
- 2. TOLERANCES ARE ±.010" INCH UNLESS SPECIFIED.
- 3. AN EPOXY MENISCUS MAY EXTEND ABOUT .040" (1 mm) DOWN THE LEADS.
- 4. DIMENSIONS X.
 PACKAGE HEIGHT HLMP = .330 (8.38)/.350 (8.89)
 FLV = .275 (6.98)/.295 (7.49)
- 5. FLV FLANGE HEIGHT = <u>0.040 (1.02)</u> 0.060 (1.53)

Parameter	HLMP33XX	FLV110	UNITS	
Power Dissipation	135	135	mW	
Average Forward Current	30	30	mA	
Peak Forward Current				
(1 μS pulsewidth, 0.3% duty cycle)(FLV110 1 amp)	90	90	mA	
Reverse Voltage	5	5	V	
Lead Soldering Time at 260° C	5	5	sec	
Operating Temperature	-55 to +100	-55 to +100	°C	
Storage Temperature	-55 to +100	-55 to +100	°C	

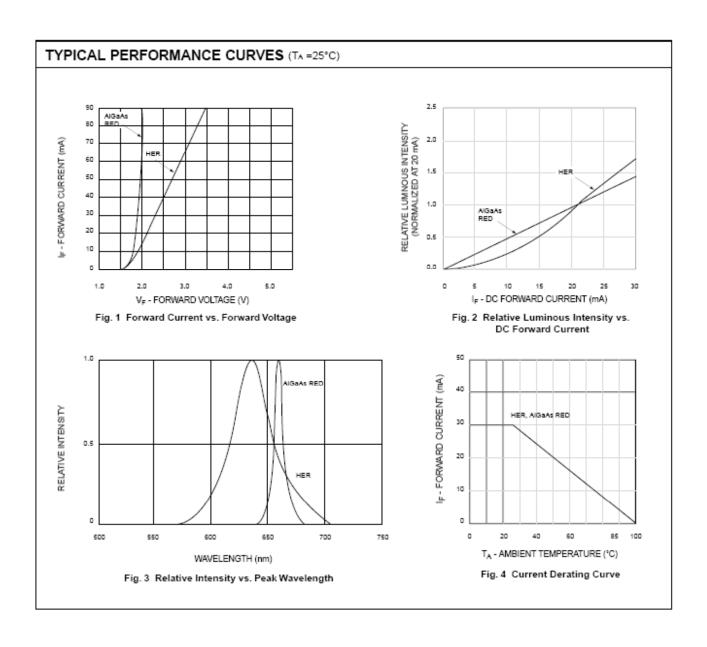


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ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)								
Part Number	HLMP-3300	HLMP-3301	HLMP-3315	HLMP-3316	FLV110	Condition		
Luminous Intensity (mcd)						I _F = 10mA		
Minimum	2.0	4.0	12	20	0.8*			
Typical	3.5	7.0	18	35	3.0*			
Forward Voltage (V)						I _F = 10mA		
Maximum	3.0	3.0	3.0	3.0	2.0			
Typical	2.2	2.2	2.2	2.2	1.6			
Peak Wavelength (nm)	635	635	635	635	660	I _F = 10mA		
Reverse Voltage (V)	5	5	5	5	5	$I_R = 100 \mu A$		
Viewing Angle (°)	65	65	35	35	70	I _F = 10mA		

^{*} For FLV110 Test I_F = 20mA

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