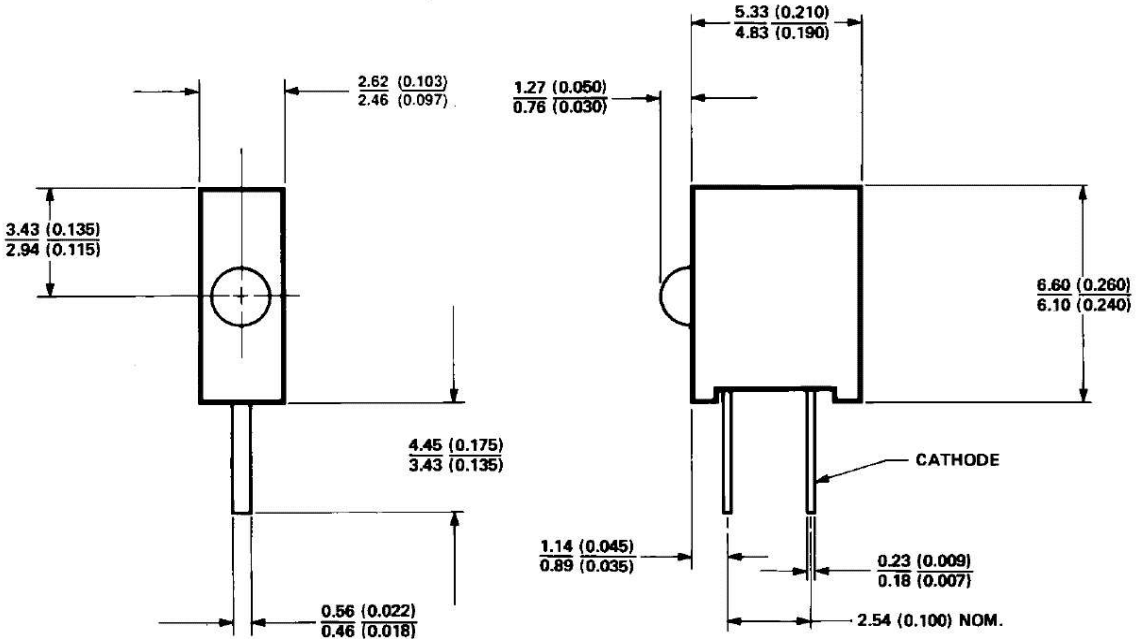

Device Selection Guide
Part Number: HLMP-XXXX

Standard Red	DH AS AlGaAs Red	High Efficiency Red	Orange	Yellow	High Perf. Green	Emerald Green	Device Description[1]	Device Outline Drawing
	P105	P205	P405	P305	P505	P605	Untinted, Nondiffused, Flat Top	A
	P102	P202	P402	P302	P502		Untinted, Diffused, Flat Top	B
6000/6001	Q101	6300	Q400	6400	6500	Q600	Tinted, Diffused	
	Q105	6305		6405	6505		Untinted, Nondiffused, High Brightness	
	Q150	7000		7019	7040		Tinted, Diffused, Low Current	B
	Q155						Nondiffused, Low Current	
		6600		6700	6800		Tinted, Diffused, Resistor, 5 V, 10 mA	
		6620		6720	6820		Diffused, Resistor, 5 V, 4 mA	

Yellow

Device HLMP-	Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
P302	Luminous Intensity[1]	I_v	1.0	3.0		mcd	I_F = 10 mA
P305			1.0	4.0			
6400			1.0	9.0			
6405			3.6	20			
7019			0.4	0.6			I_F = 2 mA
6700			1.4	5.0			V_F = 5.0 Volts
6720			0.9	2.0			
6753 to 6758			1.0	3.0			I_F = 10 mA
All	Forward Voltage (Nonresistor Lamps)	V_F		2.0	2.4	V	I_F = 10 mA
6700	Forward Current (Resistor Lamps)	I_F		9.6	13.0	mA	V_F = 5.0 V
6720				3.5	5.0		
All	Reverse Breakdown Voltage	V_R	5.0	50.0		V	
P305	Included Angle Between Half Intensity Points[2]	$2\theta 1/2$		125		Deg.	
6405				28			
All Diffused				90			
All	Peak Wavelength	λ_{PEAK}		583		nm	Measured at Peak
	Dominant Wavelength[3]	λ_d		585		nm	
	Spectral Line Half Width	$\Delta\lambda_{1/2}$		36		nm	
	Speed of Response	τ_s		90		ns	
	Capacitance	C		15		pF	V_F = 0; f = 1 MHz
	Thermal Resistance	$R\theta_{J\text{-}PIN}$		170		°C/W	Junction-to-Cathode Lead
	Luminous Efficacy[4]	η_v		500		lm/W	