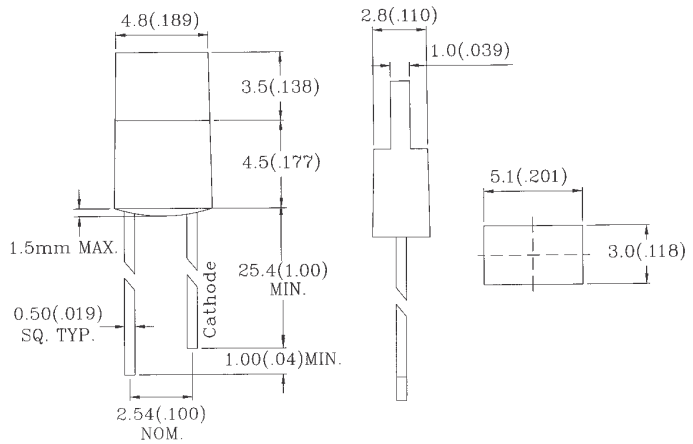
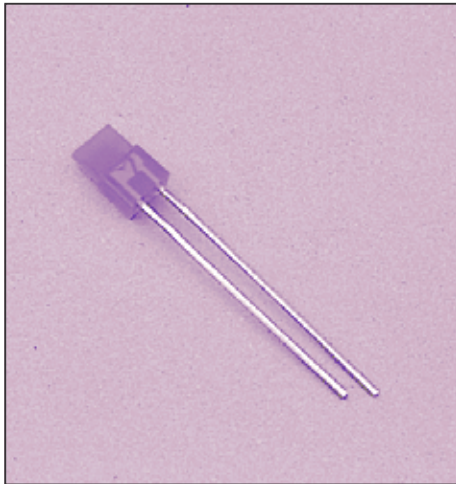
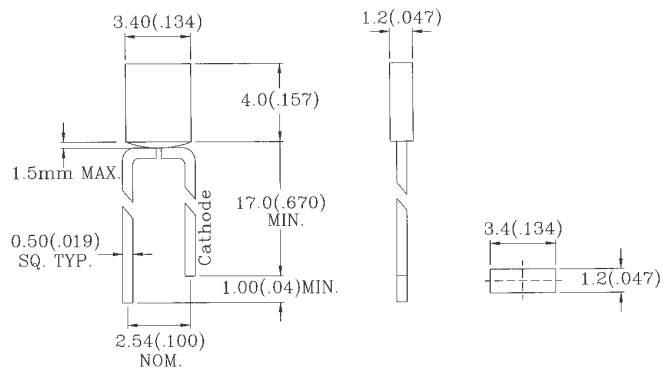
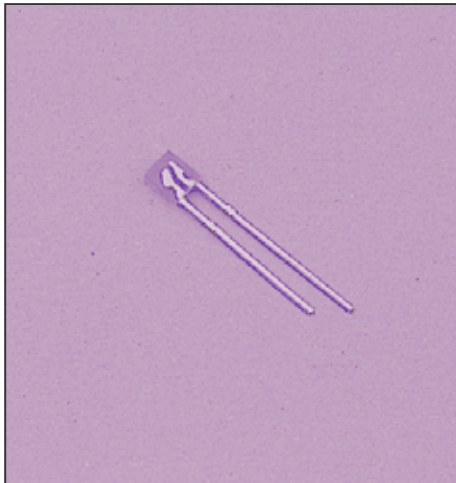


**L-443XX** 1.0x5.0x8.0 mm RECTANGULAR LED LAMP



Part No.	Chip		Lens Color	Wave Length λ p(nm)	Electro-Optical Characteristics			View Angle (deg)
	Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)20mA	
					Typ.	Max.	Typ.	
L-443HD	GaP	Red	Red Diffused	700	2.3	2.8	2.5	150
L-443GD	GaP	Green	Green Diffused	565	2.2	2.8	5.0	150
L-443YD	GaAsP/GaP	Yellow	Yellow Diffused	585	2.1	2.8	4.0	150
L-443ED	GaAsP/GaP	Hi.effi Red	Red Diffused	635	2.1	2.8	6.0	150
L-443SRD	GaAlAs	Super Red	Red Diffused	660	1.8	2.2	12.0	150

**L-452XX** 1.2x3.4x4.0 mm RECTANGULAR LED LAMP



Part No.	Chip		Lens Color	Wave Length λ p(nm)	Electro-Optical Characteristics			View Angle (deg)
	Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)20mA	
					Typ.	Max.	Typ.	
L-452HD	GaP	Red	Red Diffused	700	2.3	2.8	1.2	150
L-452GD	GaP	Green	Green Diffused	565	2.2	2.8	2.5	150
L-452YD	GaAsP/GaP	Yellow	Yellow Diffused	585	2.1	2.8	2.0	150
L-452ED	GaAsP/GaP	Hi.effi Red	Red Diffused	635	2.1	2.8	3.0	150
L-452SRD	GaAlAs	Super Red	Red Diffused	660	1.8	2.2	4.0	150

1.All dimension are in millimeters (inches).

2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.