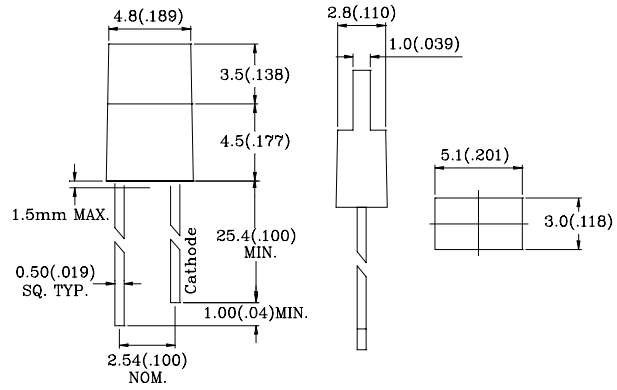
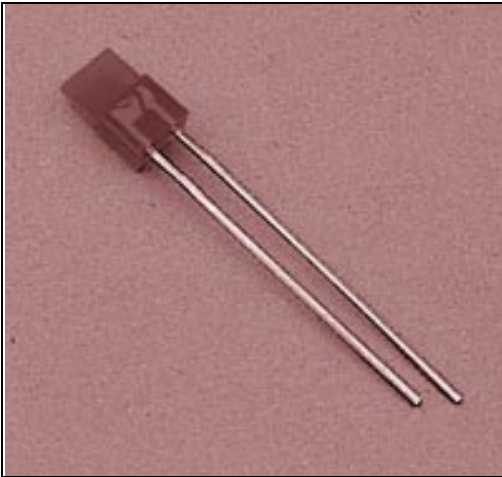


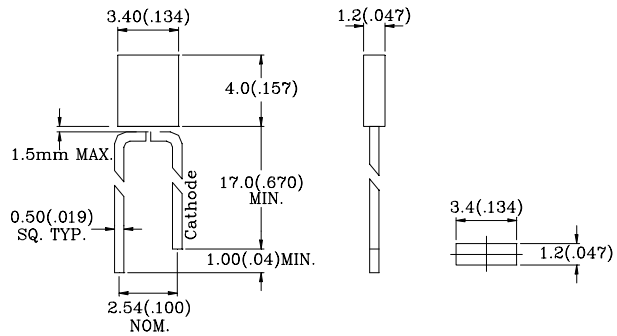
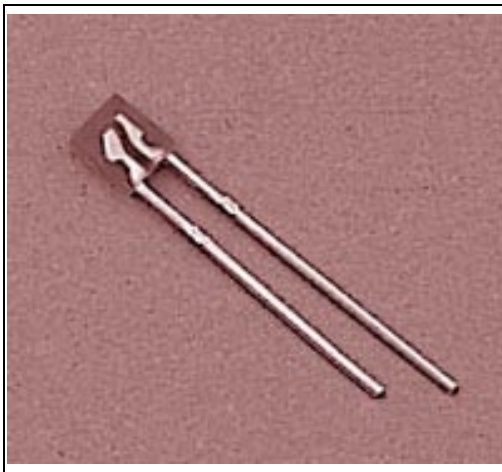


**L-443XX 1.0x5.0x8.0mm RECTANGULAR LED LAMP**



Part No.	Chip		Lens Color	Wave Length $\lambda$ p(nm)	Electro-Optical Characteristics			View Angle (deg)
	Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)10mA	
					Typ.	Max.	Typ.	
L-443HD	GaP	Red	Red Diffused	700	2.1	2.8	4.0	150
L-443GD	GaP	Green	Green Diffused	565	2.1	2.8	8.0	150
L-443YD	GaAsP/GaP	Yellow	Yellow Diffused	585	2.1	2.8	8.0	150
L-443ED	GaAsP/GaP	Hi. effi Red	Red Diffused	635	2.0	2.8	15.0	150
L-443SRD	GaAlAs	Super Red	Red Diffused	660	1.8	2.4	80.0	150

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



Part No.	Chip		Lens Color	Wave Length $\lambda$ p(nm)	Electro-Optical Characteristics			View Angle (deg)
	Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)10mA	
					Typ.	Max.	Typ.	
L-452HD	GaP	Red	Red Diffused	700	2.1	2.8	4.0	120
L-452GD	GaP	Green	Green Diffused	565	2.1	2.8	8.0	120
L-452YD	GaAsP/GaP	Yellow	Yellow Diffused	585	2.1	2.8	8.0	120
L-452ED	GaAsP/GaP	Hi. effi Red	Red Diffused	635	2.0	2.8	15.0	120
L-452SRD	GaAlAs	Super Red	Red Diffused	660	1.8	2.4	80.0	120

1. All dimension are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.