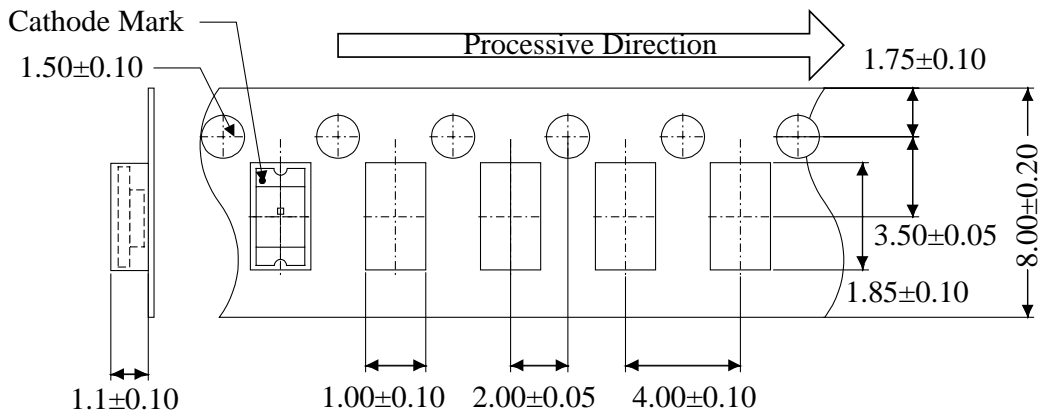
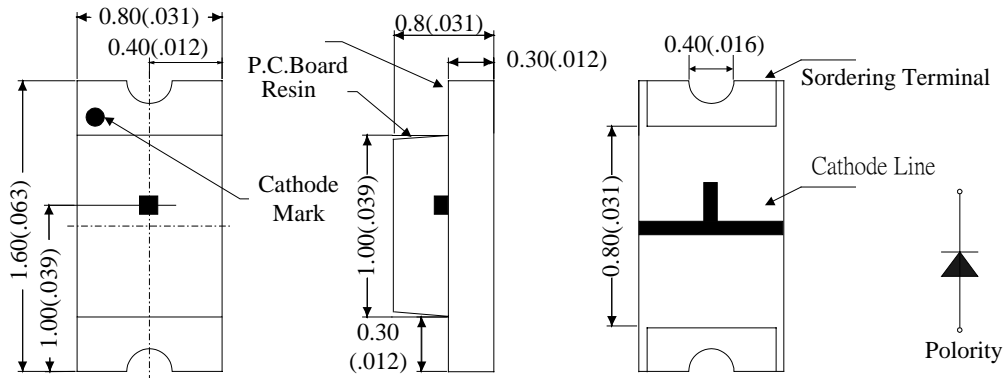


◆ PACKAGE DIMENSIONS



Loaded quantity per reel : 4000 pcs/reel

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)10mA	
					Typ.	Max.	Typ.	
L-190GW-TR	GaP	Green	White Diffused	565	2.1	2.8	13	140
L-190YW-TR	GaAsP/GaP	Yellow	White Diffused	585	2.0	2.8	8.0	140
L-190EW-TR	GaAsP/GaP	Hi.effi Red	White Diffused	635	2.0	2.8	13	140
L-190SRW-TR	GaAlAs	Super Red	White Diffused	660	1.7	2.4	20	140
L-190LRW-TR	GaAlAs	Super Red	White Diffused	660	1.7	2.4	40	140
L-190VEW-TR	GaAlInP	Super Orange	White Diffused	625	2.0	2.6	70	140
L-190SYW-TR	GaAlInP	Super Yellow	White Diffused	592	2.0	2.6	70	140
L-190VG1W-TR	GaAlInP	Super Green	White Diffused	565	2.2	2.6	45	140
L-190LB5W-TR	GaN	Super Blue	White Diffused	470	4.0	4.5	25	140
L-190SPGW-TR	GaN	Super Green	White Diffused	505	3.5	4.5	30	140
L-190LPG1W-TR	GaN	Super Green	White Diffused	525	4.0	4.5	45	140

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