



Part No.	Material	Emitter Color	Lens Type	Wave Length λ_p (nm)	At 20mA		View Angle $2\theta_{1/2}$ (deg)	Package Dimension
					Vf (V) Typ.	Iv (mcd) Typ.		
513HD	---	Red	Red Diffused	700	2.4	0.6	120	
513HRD-3	---	Red	Red Diffused	660	1.7	5.5	120	
513GD	---	Green	Green Diffused	568	2.2	3.5	120	
513YD	---	Yellow	Yellow Diffused	589	2.1	3	120	
513SOD	---	Orange	Orange Diffused	610	2	3.5	120	
523HD	---	Red	Red Diffused	700	2.4	0.6	120	
523HRD-3	---	Red	Red Diffused	660	1.7	5.5	120	
523GD	---	Green	Green Diffused	568	2.2	3.5	120	
523YD	---	Yellow	Yellow Diffused	589	2.1	3	120	
523SOD	---	Orange	Orange Diffused	610	2	3.5	120	
533HRD-3	---	Red	Red Diffused	660	1.7	10	120	
533VGD	---	Green	Green Diffused	568	2.2	6.5	120	
533VYD	---	Yellow	Yellow Diffused	589	2.1	5.5	120	
533HRC-3	---	Red	Water Clear	660	1.7	80	65	
533VGC	---	Green	Water Clear	568	2.2	55	65	
533VYC	---	Yellow	Water Clear	589	2.1	45	65	

NOTES:

1. All dimensions are in millimeters.
2. Tolerance is +/- 0.2mm unless otherwise specified
3. Protruded resin under flange is 1.5mm MAX.
4. Specifications are subject to change without notice.