



Part Number	7020X1	7020X3	7020X5	7020X7	7020X15	7020X21	7020X23	7020X33
Output Color	Red	Orange	Green	Yellow	Green	Red	Orange	Yellow
Diffused/Non-Diffused	Diffused	Diffused	Diffused	Diffused	Diffused	Diffused	Diffused	Diffused
Package Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Rated Current (mA)	20	20	20	20	20	20	20	20
Forward Voltage Typ. (V)	1.7	2.2	2.1	2.2	2.1	1.9	1.9	1.9
Forward Voltage Max. (V)	2.3	2.8	2.8	2.8	2.8	2.4	2.4	2.4
Luminous Intensity Min. (mcd)	7.6	2.2	7.0	2.2	1.6	16.0	16.0	16.0
Luminous Intensity Typ. (mcd)	11.7	3.7	6.4	3.7	2.7	50.0	65.0	65.0
Luminous Intensity Max. (mcd)	-	-	-	-	-	-	-	-
Peak Wavelength (nm)	660	605	560	580	555	630	609	592
Viewing Angle (degrees)	75	75	75	75	75	75	75	75
Power Dissipation (mW)	57.5	70	70	70	70	81	81	81
Operating Temperature (°C)	-30 to +85	-30 to +85	-30 to +85	-30 to +85	-30 to +85	-40 to +85	-40 to +85	-40 to +85
Storage Temperature (°C)	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100
Peak Forward Current Max. (mA)	60	60	60	60	60	100	100	100
Reverse Voltage (IR=100µA) (V)	4	4	4	4	4	5	5	5
Lead Solder Time @ 260°C (seconds)	5	5	5	5	5	5	5	5

Part Number	Emitted Color	Lens Color	Package Type	Luminous Intensity			Forward Voltage			Peak Wavelength (nm)	View Angle Degrees
				Min. mcd	Typ. mcd	mA	Type.	Max	mA		
CMD67-22VRVGC/TR8	H.E. Red	Clear	Dual	6.0	10.0	20	2.0	2.8	20	640	120°
	Green	Clear	Dual	15.0	25.0	20	2.1	2.8	20	570	120°
CMD67-22SRUGC/TR8	Super Red	Clear	Dual	25.0	40.0	20	1.7	2.4	20	660	120°
	Green	Clear	Dual	15.0	25.0	20	2.1	2.8	20	565	120°

Part Number	7017X21	7017X23	7017X3	7017X15	7017X13	7017X5	7017X1	7017X7	7017X33
Output Color	Red	Orange	Orange	Green	Yellow	Green	Red	Yellow	Yellow
Diffused/Non-Diffused	Diffused	Diffused	Diffused	Diffused	Diffused	Diffused	Diffused	Diffused	Diffused
Package Color	White	White	Clear	Clear	Clear	Clear	Clear	Clear	White
Power Dissipation (mW)	81	81	70	70	70	70	57.5	70	81
Forward Current (mA)	30	30	25	25	25	25	25	25	30
Peak Forward Current (mA)	100	100	60	60	60	60	60	60	100
Reverse Voltage (V)	5	5	4	4	4	4	4	4	5
Operating Temperature (°C)	-40 to +85	-30 to +85	-30 to +85	-30 to +85	-30 to +85	-30 to +85	-30 to +85	-30 to +85	-40 to +85
Storage Temperature (°C)	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100
Forward Voltage Typ. (IF=20mA)	1.9	1.9	2.2	2.1	2.2	2.1	1.7	2.1	1.9
Forward Voltage Max. (IF=20mA)	2.4	2.4	2.8	2.8	2.8	2.8	2.3	2.8	2.4
Reverse Current Typ. (VR=4V)	-	-	-	-	-	-	-	-	-
Reverse Current Max. (VR=4V)	100	100	100	100	100	100	100	100	100
Luminous Intensity Min. (IF=20 mA)	16	16	2.0	1.4	2.0	3.8	7.0	7.0	16
Luminous Intensity Typ. (IF=20 mA)	50	65	3.4	2.4	3.4	6.4	11.7	11.7	65
Peak Wavelength (IF=20 mA)	630	609	605	555	580	560	660	570	592
Special Line Half Width (IF=20 mA)	15	15	30	30	30	30	30	30	15
Viewing Angle (degrees)	70	70	70	70	70	70	70	70	70