



COMMITTED TO HI-QUALITY

The Super

3 ø (T-1) Round Type LEDs

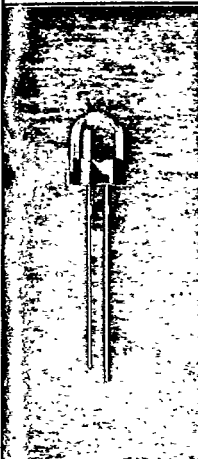
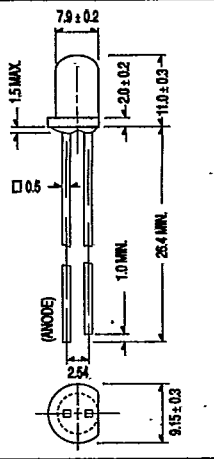
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λp(nm)	Vf (V) 20 mA		Viewing Angle 2θ1/2 (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	1224 HRC - 5	Red	Water Clear	300	550	660	1.7	2.4	16	
	1224 HRC - 3			180	300					
	1224 SRC / L1			80	140					
	1224 VRT	Red	Tinted Transparent	70	120	640	2.0	2.8	16	
	1224 VGT	Green		40	75					
	1224 VYT	Yellow		40	75					
	1224 SRD / L1	Red	Tinted Diffused	30	55	660	1.7	2.4	30	
	1224 HRD - 1			60	100					
	1224 VRD			20	30					
	1224 VGD	Green	Tinted Diffused	15	25	565	2.1	2.8	36	
	1224 VYD	Yellow		15	25					

5 ø (T-1 3/4) Round Type LEDs

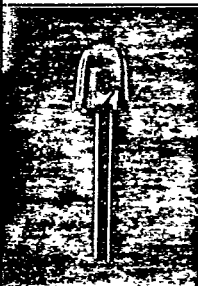
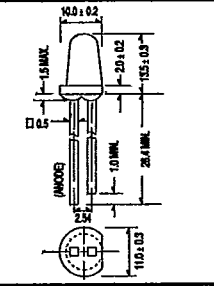
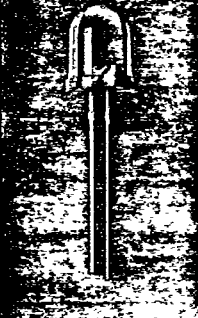
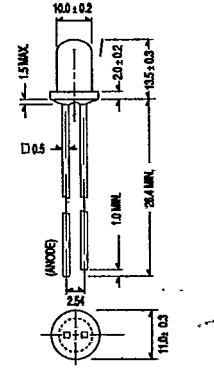
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λp(nm)	Vf (V) 20 mA		Viewing Angle 2θ1/2 (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	383 URC - 2	Red	Water Clear	1200	2000	660	1.7	2.4	12	
	383 URC - 1			700	1000					
	383 HRC - 5			300	500					
	383 SRC / L1			120	300					
	383 VRC	Red	Tinted Transparent	80	140	640	2.0	2.8	16	
	383 VRT	Green		80	140					
	383 VYT	Yellow		80	140					
	333 URC - 1	Red	Water Clear	600	1000	660	1.7	2.4	16	
333 HRC - 6	320			600						
333 HRC - 3	180			300						
333 SRC / L1	100			200						
333 VRC	Red	Tinted Transparent	60	120	640	2.0	2.8	20		
333 VRT	Green		60	120						
333 VGT	Yellow		60	120						
333 VYT	Red	Tinted Diffused	160	320	660	1.7	2.4	36		
333 HRD - 3			100	180						
333 HRD - 1			36	70						
333 SRD / L1	Green	Tinted Diffused	20	40	640	2.0	2.8	44		
333 VRD			16	30						
333 VGD			16	30						
333 VYD	Yellow	Tinted Diffused	16	30	585	2.0	2.8			

Of EVERLIGHT

8 ø Round Type LEDs

Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 θ 1/2 (deg)	Package Dimensions		
				Min.	Typ.		Typ.	Max.				
	393 HRC - 7	Red	Water Clear	360	700	660	1.7	2.4	16			
	393 HRC - 3			160	300							
	393 SRC / L1			75	150							
	393 VRC	Red	Tinted Transparent		40	80	640	2.0	2.8		20	
	393 VRT	Red			40	80	640	2.0	2.8			
	393 VGT	Green			40	80	565	2.1	2.8			
	393 VYT	Yellow	Tinted Diffused		40	80	585	2.0	2.8		36	
	393 HRD - 2	Red			120	200	660	1.7	2.4			44
	393 HRD - 1				40	80						
	393 SRD / L1	20			40							
	393 VRD	Red			16	30	640	2.0	2.8			
	393 VGD	Green	16	30	565	2.1	2.8					
	393 VYD	Yellow	16	30	585	2.0	2.8					

10 ø Round Type LEDs

Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 θ 1/2 (deg)	Package Dimensions	
				Min.	Typ.		Typ.	Max.			
	1363 URC - 3	Red	Water Clear	2100	3000	660	1.7	2.4	8		
	1363 URC - 2			1100	2000						
	1363 URC - 1			600	1000						
	1363 SRC / L1			400	600						
	1363 VRC	Red	Tinted Transparent		300	500	640	2.0	2.8		12
	1363 VRT	Red			300	500	640	2.0	2.8		
	1363 VGT	Green			250	400	565	2.1	2.8		
	1363 VYT	Yellow			250	400	585	2.0	2.8		
	363 URC - 1	Red	Water Clear	900	1600	660	1.7	2.4	16		
	363 HRC - 6			320	600						
	363 HRC - 3			150	300						
	363 SRC / L1			120	200						
	363 VRC	Red	Tinted Transparent		100	180	640	2.0	2.8		20
	363 VRT	Red			100	180	640	2.0	2.8		
	363 VGT	Green			100	180	565	2.1	2.8		
	363 VYT	Yellow			100	180	585	2.0	2.8		
	363 VRD	Red	Tinted Diffused		20	40	640	2.0	2.8		36
	363 VGD	Green			16	30	565	2.1	2.8		
363 VYD	Yellow	16			30	585	2.0	2.8			

Bright Era

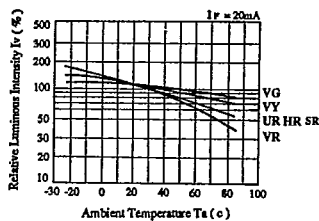
Sub-Miniature Type LEDs

Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λp(nm)	Vf (V) 20 mA		Viewing Angle 2θ1/2 (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	90-21 SRC / L1	Red	Water Clear	4.0	7.0	660	1.7	2.4	60	
	90-21 VRC			3.0	6.0	640	2.0	2.8		
	90-21 VGC	Green		2.5	4.5	565	2.1	2.8		
	90-21 VYC	Yellow		2.5	4.5	585	2.0	2.8		

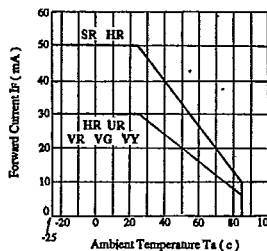
Metal Base, Bipolar Solid State Lamps

Photo	Type Number	Color	Lens Size	Voltage Ratings	Intensity (mcd)	Pd (W)	Base size	Package Dimensions
	P 101 R	Red	10 ø	DC, 28 V ± 2 V	60	0.04	BA9S	
	P 101 G	Green		DC, 28 V ± 2 V	35	0.04		
	P 101 Y	Yellow		DC, 28 V ± 2 V	35	0.04		

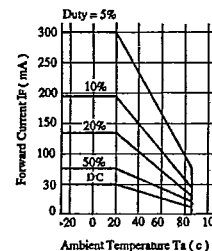
Electro-Optical Characteristic Curves



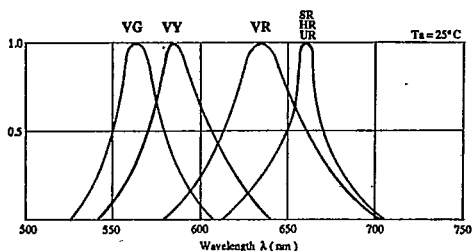
• Luminous Intensity vs. Ambient Temperature



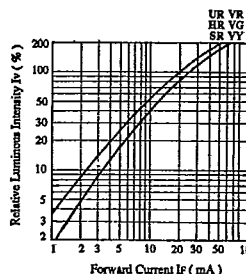
• Forward Current vs. Ambient Temperature



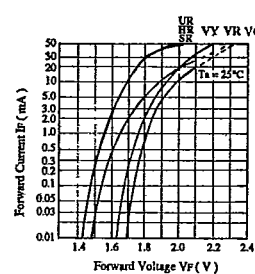
• Ambient Temperature (°C) vs. Forward Current Capacity



• Relative Intensity vs. Wavelength



• Luminous Intensity vs. Forward Current



• Forward Current vs. Forward Voltage