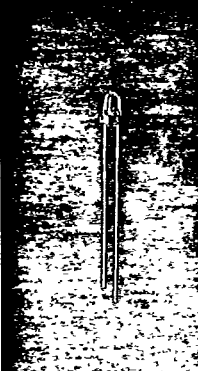
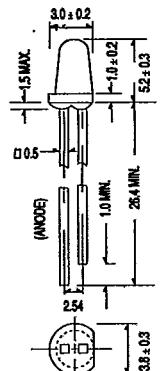




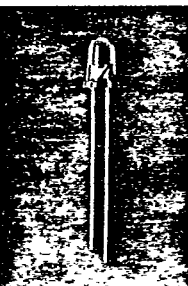
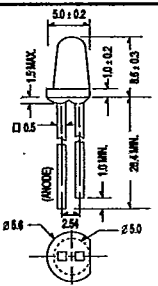
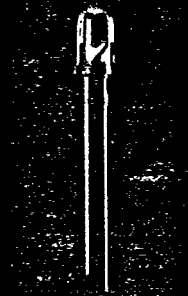
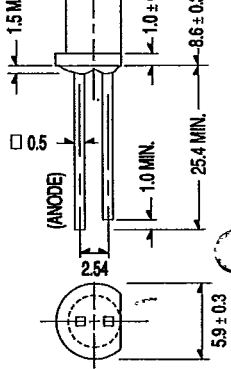
COMMITTED TO HI-QUALITY

The Super

3 ø (T-1) Round Type LEDs

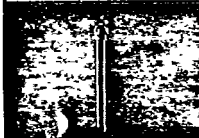
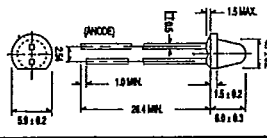
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λp(nm)	Vf (V) 20 mA		Viewing Angle 2θ1/2 (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	1224 HRC - 5	Red	Water Clear	300	550	660	1.7	2.4	16	
	1224 HRC - 3			180	300				16	
	1224 SRC / L1			80	140				20	
	1224 VRT	Red	Tinted Transparent	70	120	640	2.0	2.8	16	
	1224 VGT	Green		40	75	565	2.1	2.8	16	
	1224 VYT	Yellow		40	75	585	2.0	2.8	20	
	1224 SRD / L1	Red	Tinted Diffused	30	55	660	1.7	2.4	30	
	1224 HRD - 1			60	100				30	
	1224 VRD			20	30	640	2.0	2.8	36	
	1224 VGD	Green		15	25	565	2.1	2.8	36	
	1224 VYD	Yellow		15	25	585	2.0	2.8	36	

5 ø (T-1 3/4) Round Type LEDs

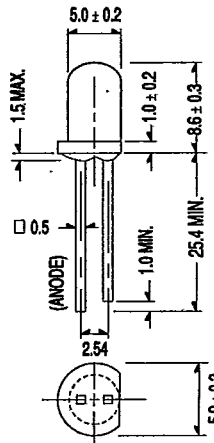
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λp(nm)	Vf (V) 20 mA		Viewing Angle 2θ1/2 (deg)	Package Dimensions			
				Min.	Typ.		Typ.	Max.					
	383 URC – 2	Red	Water Clear	1200	2000	660	1.7	2.4	12 16				
	383 URC – 1			700	1000								
	383 HRC – 5			300	500								
	383 SRC / L1			120	300								
	383 VRC	Red	Tinted Transparent	80	140	640	2.0	2.8	12 16				
	383 VRT			80	140	640	2.0	2.8					
	383 VGT			80	140	565	2.1	2.8					
	383 VYT			80	140	585	2.0	2.8					
	333 URC – 1	Red	Water Clear	600	1000	660	1.7	2.4	16 20				
	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	16 20				
	333 VRT			60	120	640	2.0	2.8					
	333 VGT			60	120	565	2.1	2.8					
	333 VYT			60	120	585	2.0	2.8					
	333 HRD – 3	Red	Tinted Diffused	160	320	660	1.7	2.4	36 44				
	333 HRD – 1			100	180								
	333 SRD / L1			36	70								
	333 VRD			20	40						640	2.0	2.8
	333 VGD			16	30						565	2.1	2.8
	333 VYD			16	30						585	2.0	2.8

Bright LED Family

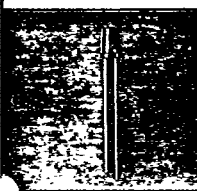
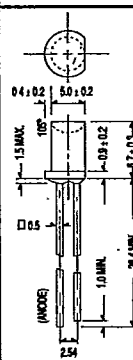
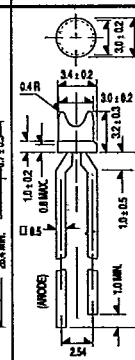
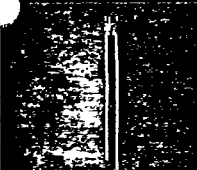
5 ø (T-1 3/4) Low Profile, Round Type LEDs

Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 $\theta_{1/2}$ (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	323 SRC / L1	Red	Water Clear	100	180	660	1.7	2.4	44 ∩ 48	
	323 VRT	Red	Tinted Transparent	60	100	640	2.0	2.8		
	323 VGT	Green		55	100	565	2.1	2.8		
	323 VYT	Yellow		60	100	585	2.0	2.8		

5 ø (T-1 3/4) Wide Angle, Round Type LEDs

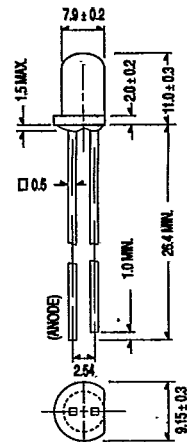
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 $\theta_{1/2}$ (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	333 HRC-5 / H $\emptyset$	Red	Water Clear	250	500	660	1.7	2.4	40 J 48	
	333 HRC-3 / H $\emptyset$			120	250					
	333 HRC-1 / H $\emptyset$			50	100					
	333 VRC / H $\emptyset$	Red	Tinted Transparent	40	80	640	2.0	2.8	40 J 48	
	333 VRT / H $\emptyset$	Red		40	80	640	2.0	2.8		
	333 VGT / H $\emptyset$	Green		40	80	565	2.1	2.8		
	333 VYT / H $\emptyset$	Yellow		35	75	585	2.0	2.8		
	333 HRD-2 / H $\emptyset$	Red	Tinted Diffused	110	200	660	1.7	2.4	60 J 68	
	333 HRD-1 / H $\emptyset$			50	100					
	333 SRD/L1 / H $\emptyset$			26	50					
	333 VRD / H $\emptyset$	Red		16	30	640	2.0	2.8		
	333 VGD / H $\emptyset$	Green		16	30	565	2.1	2.8		
333 VYD / H $\emptyset$	Yellow	16		30	585	2.0	2.8			

3 ø, 5 ø Backlighting Type LEDs

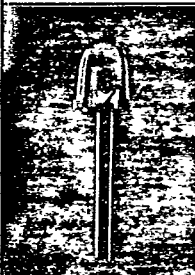
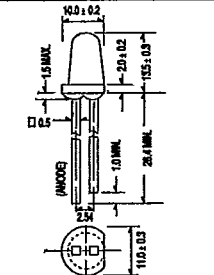
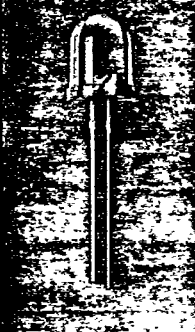
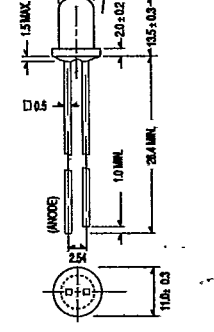
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 $\theta_{1/2}$ (deg)	Package Dimensions			
				Min.	Typ.		Typ.	Max.		473 Series	494 Series		
	473 SRC / L1	Red	Water Clear	5	10	660	1.7	2.4	180				
	473 VRT	Red	Tinted Transparent	4	7	640	2.0	2.8					
	473 VGT	Green		3	5.5	565	2.1	2.8					
	473 VYT	Yellow		4	6.5	585	2.0	2.8					
	494 SRC / L1	Red	Water Clear	5	10	660	1.7	2.4	124				
	494 VRT	Red	Tinted Transparent	4	7	640	2.0	2.8					
	494 VGT	Green		3	5.5	565	2.1	2.8					
	494 VYT	Yellow		4	6.5	585	2.0	2.8					

Of EVERLIGHT

8 ø Round Type LEDs

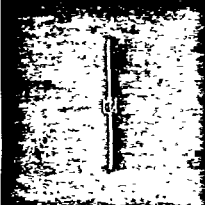
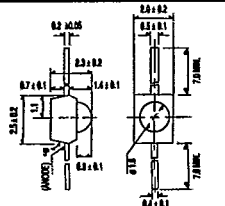
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 $\theta_{1/2}$ (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	393 HRC – 7	Red	Water Clear	360	700	660	1.7	2.4	16 J 20	
	393 HRC – 3			160	300					
	393 SRC / L1			75	150					
	393 VRC	Red	Tinted Transparent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

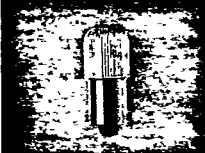
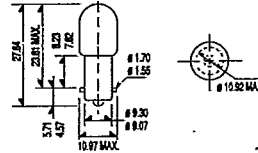
Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 $\theta_{1/2}$ (deg)	Package Dimensions
				Min.	Typ.		Typ.	Max.		
	1363 URC - 3	Red	Water Clear	2100	3000	660	1.7	2.4	8 12	
	1363 URC - 2			1100	2000					
	1363 URC - 1			600	1000					
	1363 SRC / L1			400	600					
	1363 VRC			300	500					
	1363 VRT	Red	Tinted Transparent	300	500	640	2.0	2.8	8 12	
	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 20	
	363 HRC - 6			320	600					
	363 HRC - 3			150	300					
	363 SRC / L1			120	200					
	363 VRC			100	180					
	363 VRT	Red	Tinted Transparent	100	180	640	2.0	2.8	16 20	
	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 44	
	363 VGD	Green		16	30	565	2.1	2.8		
	363 VYD	Yellow		16	30	585	2.0	2.8		

Bright Era

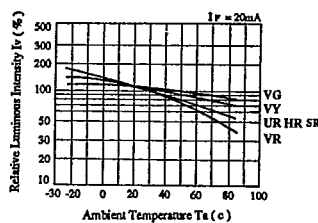
Sub-Miniature Type LEDs

Photo	Type Number	Color	Lens	Iv (mcd) 20 mA		Wave Length λ_p (nm)	Vf (V) 20 mA		Viewing Angle 2 $\theta_{1/2}$ (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		

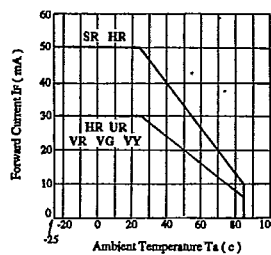
Metal Base, Bipolar Solid State Lamps

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

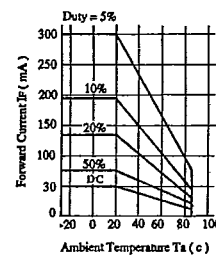
Electro-Optical Characteristic Curves



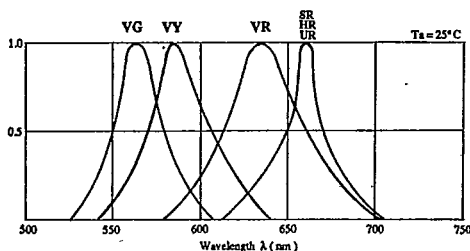
- Luminous Intensity vs. Ambient Temperature



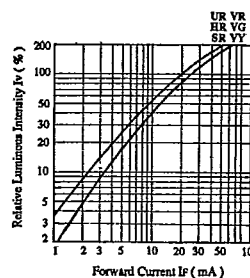
- Forward Current vs. Ambient Temperature



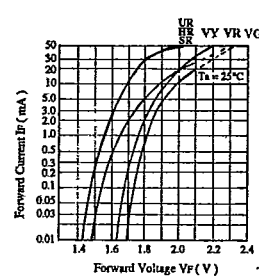
- Ambient Temperature (°C) vs. Forward Current Capacity



- Relative Intensity vs. Wavelength



- Luminous Intensity vs. Forward Current



- Forward Current vs. Forward Voltage