

SLR-322 Series

Features

- Viewing angle $2\theta_{1/2}$: 35°, 50°



Specifications

Viewing angle $2\theta_{1/2}$ / 35°: Standard

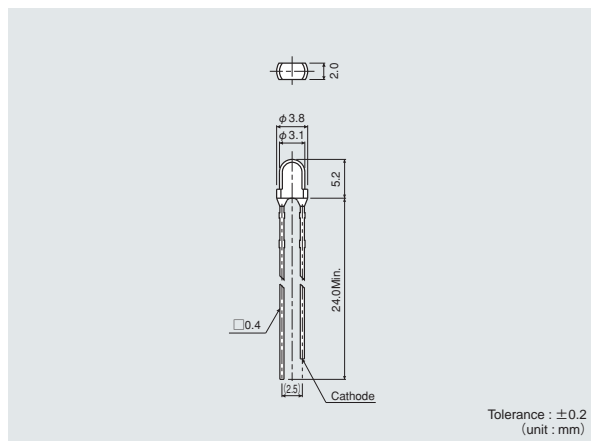
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Pd (mW)	Forward Current If (mA)	Peak Forward Current Ifp (mA)	Reverse Voltage Vr (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F Typ. (V)	Forward Current If (mA)	Reverse Current I _R Max. (μA)	Reverse Voltage Vr (V)	Dominant Wavelength λ D Typ. (nm)		Luminous Intensity I _v Min. (mcd) Typ. (mcd)		
■ SLR-322VC	GaAsP on GaP	Red	60	20	60	3	-25 to +85	-30 to +100	2.0	10	10	3	630		5.6	16	
■ SLR-322DC		Orange											605				10
■ SLR-322YC		Yellow											587		9	25	
■ SLR-322MC	GaP	Yellowish Green	75	25				2.1				572					

Viewing angle $2\theta_{1/2}$ / 50°: Standard

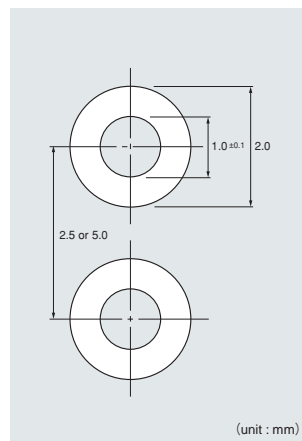
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Pd (mW)	Forward Current If (mA)	Peak Forward Current Ifp (mA)	Reverse Voltage Vr (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V _F Typ. (V)	Forward Current If (mA)	Reverse Current I _R Max. (μA)	Reverse Voltage Vr (V)	Dominant Wavelength λ D Typ. (nm)		Luminous Intensity I _v Min. (mcd) Typ. (mcd)		
■ SLR-322VR	GaAsP on GaP	Red	60	20	60	3	-25 to +85	-30 to +100	2.0	10	10	3	630		3.6	10	
■ SLR-322DU		Orange											605				10
■ SLR-322YY		Yellow											587		3.6	10	
■ SLR-322MG	GaP	Yellowish Green	75	25				2.1				572		5.6			16

*: Duty 1/5, 200Hz

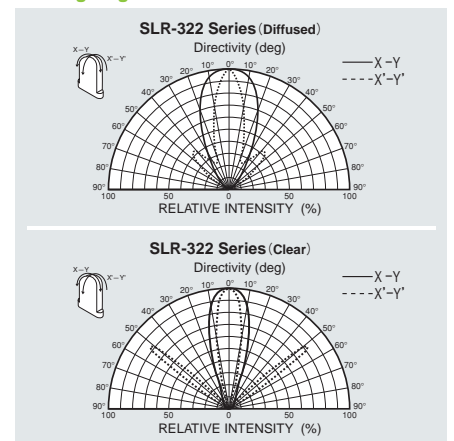
Dimensions



Recommended Solder Pattern

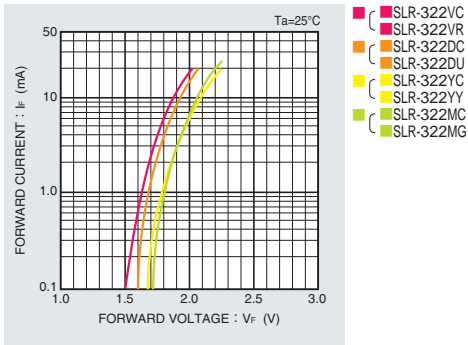


Viewing Angle

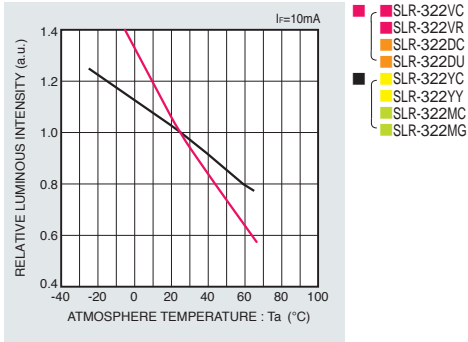


Electrical Characteristics Curves

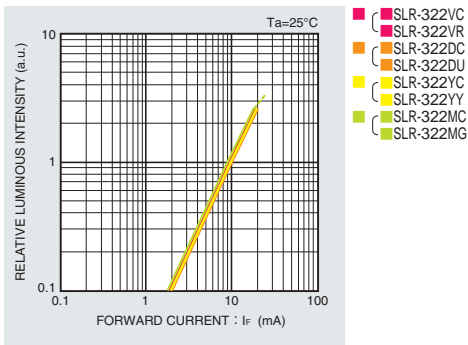
Forward Current-Forward Voltage



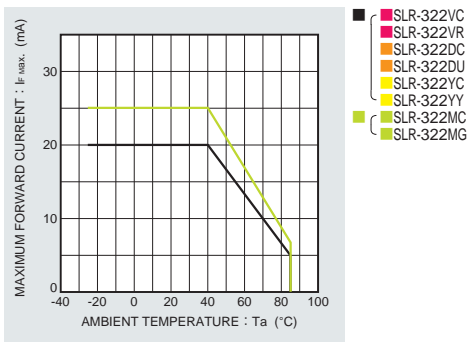
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



Rank Reference of Brightness

■ Red (V)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank											
		E	F	G	H	J	K	L	M	N	P	Q	
		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	
φ3 Flat disc type	35°	Transparent Colored							*SLR-322VC				
	50°	Diffused Colored							*SLR-322VR				

■ Orange (D)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank											
		E	F	G	H	J	K	L	M	N	P	Q	
		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	
φ3 Flat disc type	35°	Transparent Colored							*SLR-322DC				
	50°	Diffused Colored							*SLR-322DU				

■ Yellow (Y)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank											
		E	F	G	H	J	K	L	M	N	P	Q	
		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	
φ3 Flat disc type	35°	Transparent Colored							*SLR-322YC				
	50°	Diffused Colored							*SLR-322YY				

■ Green (M)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank											
		E	F	G	H	J	K	L	M	N	P	Q	
		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	
φ3 Flat disc type	35°	Transparent Colored							*SLR-322MC				
	50°	Diffused Colored							*SLR-322MG				

※Brightness on specification sheet include tolerance of within ± 10%.

Part No. Construction



V	Red:630nm
D	Orange:605nm
Y	Yellow:587(590)nm
M	Yellowish-Green:572(563)nm

R	<Red> Diffused Colored
U	<Orange> Diffused Colored
Y	<Yellow> Diffused Colored
G	<Green> Diffused Colored
C	Transparent Colored

3F	1-Element straight bulk
T□□	See taping specifications

- Concerning the Brightness rank
- Please refer to the rank chart above for luminous intensity classification.
- Part name is individual for each rank.
- When shipped as sample, the part name will be a representative part name.
- General products are free of ranks. Please contact sales if rank appointment is needed.

Notes

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