

Dual-Color Type $\phi 3.1$ Circular Type LED Lamps

SPR-39 Series

Shape	Emitting Surface Dimension (mm)	Green	Red
		GaP	GaAsP on GaP
		563nm	650nm
Circular Type	$\phi 3.1$		
		SPR-39MVW	

Absolute Maximum Ratings (Ta=25°C)

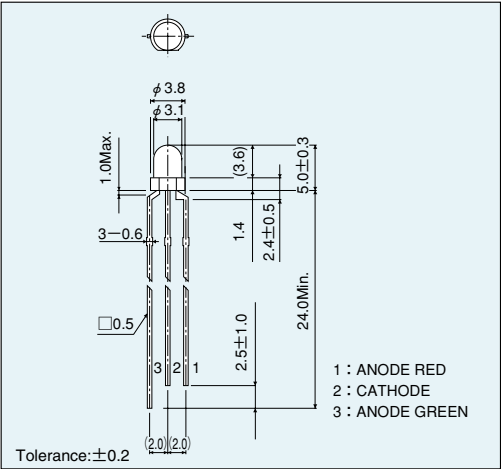
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Storage temperature T_{stg} (°C)
SPR-39MVW	Green	75	25	60	3	-25 to +85	-30 to +100
	Red	60	20				

* I_{FP} measured under duty $\leq 1/5$, pulse width ≤ 1 ms.

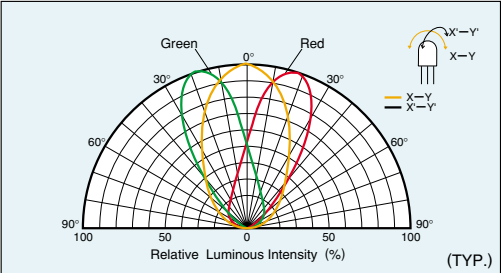
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength			Brightness I_v		
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Peak λ_p	Half-wave $\Delta\lambda$	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
						Typ. (nm)	Typ. (nm)				
SPR-39MVW	Milky White	2.1	10	10	3	563	40	10	3.6	10	10
		2.0				650			2.2	6.3	

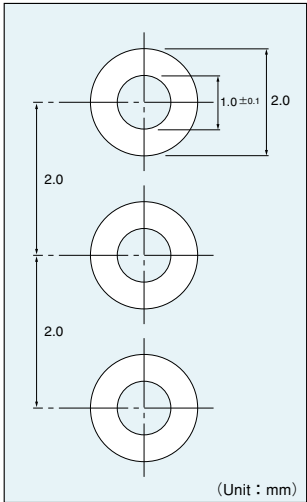
External Dimensions (Unit : mm)



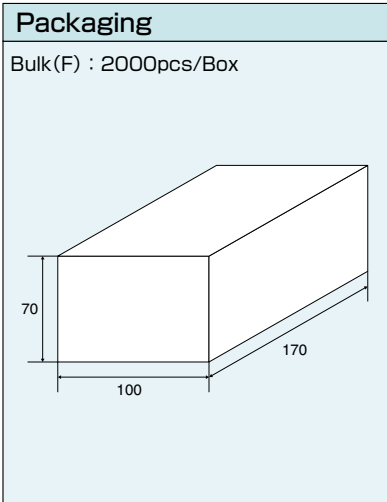
Directivity



Recommended Pad Layout

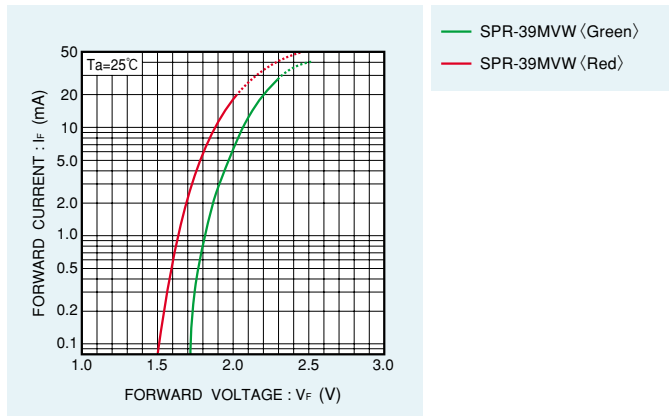


Packaging Specifications (Unit : mm)

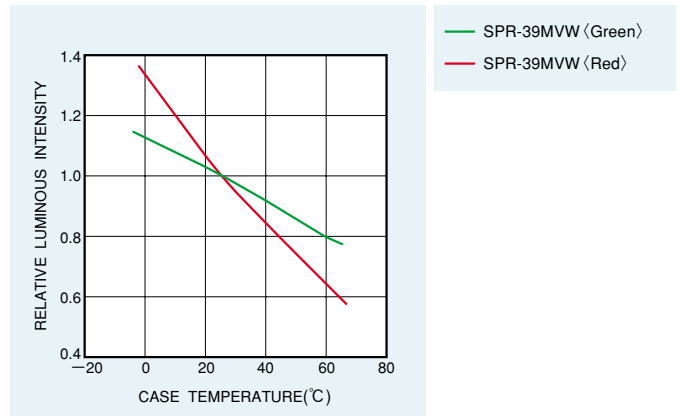


Electrical Characteristic Curves

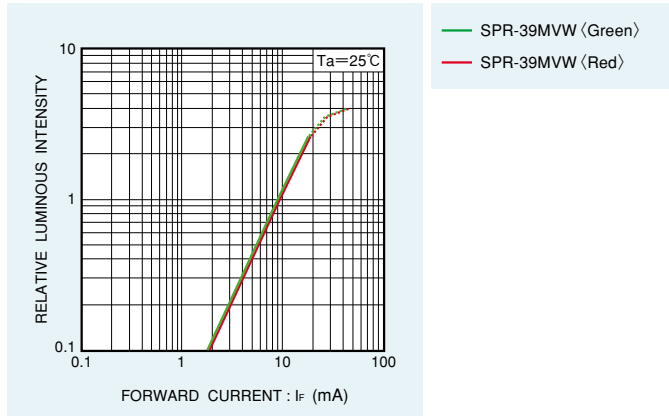
Forward Current - Forward Voltage



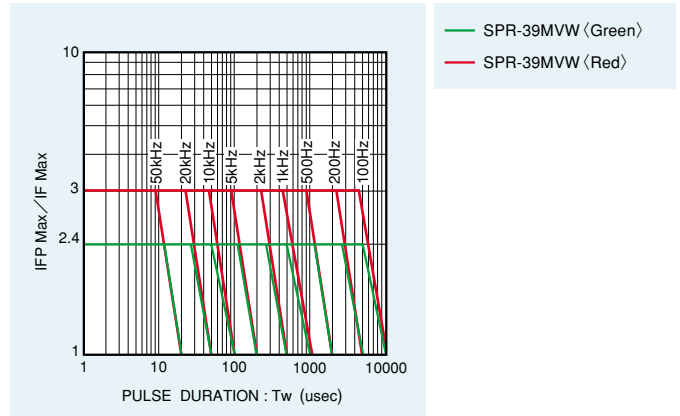
Relative Luminous Intensity - Case Temperature



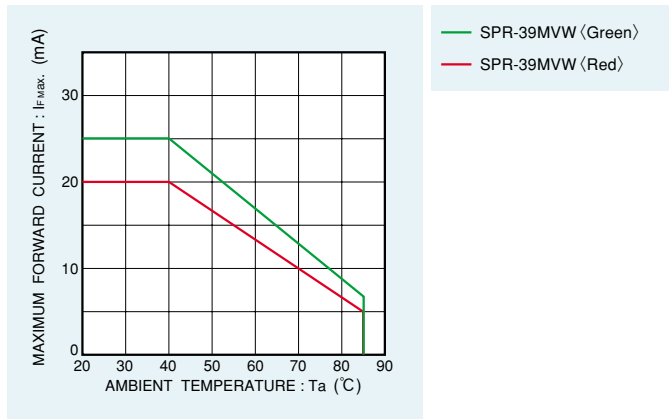
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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