# Dual-Color Type $\phi$ 5.0 Circular Type LED Lamps

## **SPR-54 Series**

	Emitting Surface Dimension (mm)	Green	Red		
Shape		GaP	GaAsP on GaP		
		563nm	650nm		
Circular Type		SPR-54MVW			

### ■ Absolute Maximum Ratings (Ta=25°C)

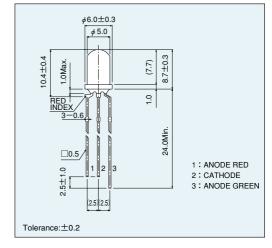
	Part No.	Emitting color	Power dissipation Po (mW)	Forward current IF (mA)	Peak forward current IFP (mA)	Reverse voltage V <sub>R</sub> (V)		Stotage temperature T <sub>stg</sub> (°C)	
SI	ODD 54M/M/	Green	75	25	60	3	05 to . 05	-30 to +100	
	SPR-54MVW	Red	60	20	60	3	-25 to +85		

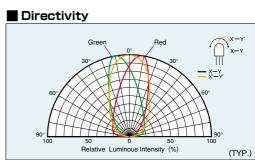
<sup>\*</sup>IFP measured under duty  $\leq 1/5$ , pulse width  $\leq 1$ ms.

### ■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V <sub>F</sub>		Reverse current In		Light wavelength  Peak Half-wave  λρ Δλ			Brightness Iv		
		Typ.	lF (mA)	Max. (μA)	VR (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SPR-54MVW	Milky White	2.1	10	10	3	563	40 10	3.6	10	10	
3FN-54WWW		2.0				650		10	2.2	6.3	10

### **■** External Dimensions (Unit: mm)

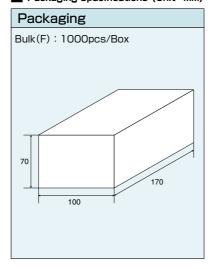




### ■ Recommemded Pad Layout

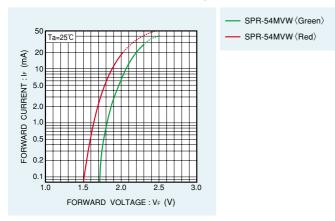
# 2.5 (Unit : mm)

### ■ Packaging Spacifications (Unit: mm)



### **■** Electrical Characteristic Curves

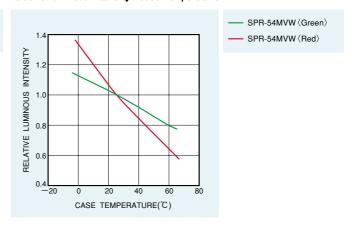
### Forward Current - Forward Voltage



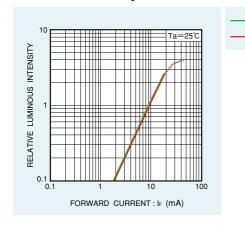
SPR-54MVW (Green)

SPR-54MVW (Red)

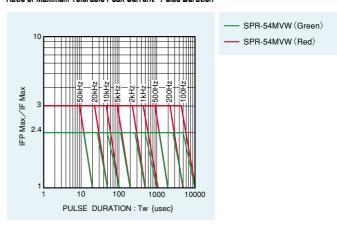
### Relative Luminous Intensity - Case Temperature



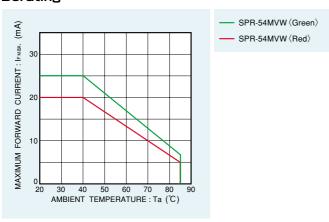
### Relative Luminous Intensity - Forward Current



### Ratio of Maximum Tolerable Peak Current - Pulse Duration



### Derating



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