MULTI SMD RGB LED

VLMRGB343.. Series

High-Brightness Tri-Color SMD LED in PLCC-4 Package

FEATURES

- Black surface
- AEC-Q101 automotive qualified
- Qualified according to JEDEC moisture sensitivity level 2
- Compatible with IR reflow soldering
- Environmentally friendly; RoHS-compliant
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

BENEFITS

- Separate control of red, green, and blue LED chips
- High brightness
- Eight available device options with various combinations of luminous intensity per color to suit a wide range of applications

APPLICATIONS

- Accent and decorative lighting
- Full-color message and video display boards
- Backlight for LCDs, PDAs, TVs, and other consumer electronics
- White goods, including home appliances such as conventional and microwave ovens, washing machines, and dryers

Datasheet is available on our web site at www.vishay.com
for VLMRGB343.. Series - http://www.vishay.com/doc?81742

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OPTICAL AND ELECTRICAL CHARACTERISTICS[1] VLMRGB343.., RED, TRUE GREEN, BLUE									
Parameter	**Test Condition**	**Part**	**Floating Groups**	**Color**	**Symbol**	**Min.**	**Typ.**	**Max.**	**Unit**
Luminous Intensity	I_F = 20 mA	VLMRGB343-ST-UV-RS		Red	I_V	140		285	mcd
				True green		285		560	
				Blue		100		200	
		VLMRGB343	S3U3R3	Red	I_V	140		200	mcd
				True green		285		400	
				Blue		100		140	
			S3U3S3	Red	I_V	140		200	mcd
				True green		285		400	
				Blue		100		200	
			S3V3R3	Red	I_V	140		200	mcd
				True green		400		560	
				Blue		100		140	
			S3V3S3	Red	I_V	140		200	mcd
				True green		400		560	
				Blue		100		200	
			T3U3R3	Red	I_V	200		285	mcd
				True green		285		400	
				Blue		100		140	
			T3U3S3	Red	I_V	200		285	mcd
				True green		285		400	
				Blue		140		200	
			T3V3R3	Red	I_V	200		285	mcd
				True green		400		560	
				Blue		100		140	
			T3V3S3	Red	I_V	200		285	mcd
				True green		400		560	
				Blue		140		200	
Dominant Wavelength		VLMRGB343..		Red	λ_d	618	625	628	nm
				True green		521	526	536	
				Blue		465	470	475	
Angle of Half Intensity				Red	φ		± 60		deg
				True green					
				Blue					
Forward Voltage				Red	V_F		1.8	2.45	V
				True green			3.7	4.25	
				Blue			3.6	4.25	

Note: Not designed for reverse direction.

1) T_{amb} = 25 °C, unless otherwise specified.