

DEVICE TYPE : RBG509MK-A

THREE COLOR 5.0mm LAMP

Φ5全彩光阳 (1)

Light color : Red · Blue · Green Color

Absolute maximum rating (Ta = 25°C)

- Reverse current : 100 μ A
- Peak current (duty = 0.1, 1KHz) : 100 mA
- Operating/Storage temperature range : -30°C ~ +85°C
- Derating linear from 25°C : 0.4 mA/°C
- Lead soldering temperature range : 260°C for 5 second

Electro-optical characteristics (TA = 25°C)

RED COLOR :

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	VF	◇	2.00	2.35	V	IF = 20 mA
Luminous intensity	IV		80	◇	med	IF = 20 mA
Peak emission wavelength	λ_p		625	630	nm	◇
Half intensity angle	$\Delta\theta$	◇	40	◇	deg	◇

GREEN COLOR :

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	VF	◇	3.2	3.5	V	IF = 20 mA
Luminous intensity	IV		160	◇	med	IF = 20 mA
Peak emission wavelength	λ_p		515	520	nm	◇
Half intensity angle	$\Delta\theta$	◇	35	◇	deg	◇

BLUE COLOR :

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	VF	◇	3.2	3.5	V	IF = 20 mA
Luminous intensity	IV		120	◇	med	IF = 20 mA
Peak emission wavelength	λ_p		465	467.5	nm	◇
Half intensity angle	$\Delta\theta$	◇	38	◇	deg	◇