

Model: ZD2388-RGB-A

Full colour RGB Display

■ MAXIMUM RATINGS AT TA=25°C

Operating Temperature Range	-20°C to +70°C
Storage Temperature Range	-30°C to +80°C

RED CHIP

DC Forward Current	30 mA
Peak Forward Current (1/10 duty cycle @1kHz)	100 mA
Reverse Voltage	10 V

SINGLE GREEN CHIP

DC Forward Current	30 mA
Peak Forward Current (1/10 duty cycle @1kHz)	100 mA
Reverse Voltage	10 V

BLUE CHIP

DC Forward Current	30 mA
Peak Forward Current (1/10 duty cycle @1kHz)	70 mA
Reverse Voltage	10 V

■ ELECTRICAL/OPTICAL CHARACTERISTICS AT TA= 25°C AND IF=20mA

RED CHIP

Symbol(unit)	Description	Min.	Typ.	Max.
V(f)	Forward Voltage/Chip	1.70	1.80	1.95
Ir(μ A)	Reverse Current (Vr=5V)			10.0
Iv(mcd)	Luminous Intensity/Chip		145	
λp(nm)	Peak Wavelength		660	
λd(nm)	Dominant Wavelength		625	
Δ λ(nm)	Halfwidth		20	
τ (ns)	Optical Rise Time		25	

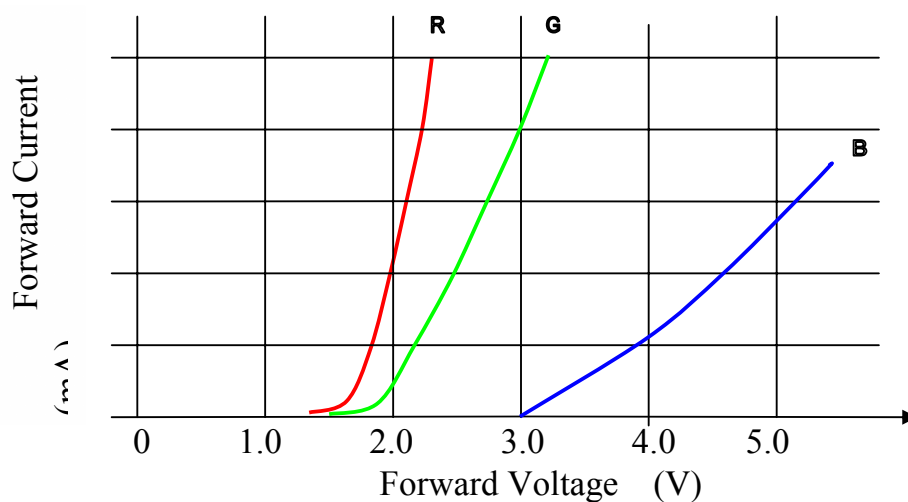
SINGLE GREEN CHIP

Symbol(unit)	Description	Min.	Type	Max
V(f)	Forward Voltage/Chip	2.00	2.20	2.30
I _r (μ A)	Reverse Current (V _r =5V)			10.0
I _v (mcd)	Luminous Intensity/Chip		145	
λ_p (nm)	Peak Wavelength		520	
λ_d (nm)	Dominant Wavelength		525	
$\Delta \lambda$ (nm)	Half-width		30	
τ (ns)	Optical Rise Time		25	

BLUE CHIP

Symbol(unit)	Description	Min.	Type	Max
V(f)	Forward Voltage/Chip	3.4	3.8	4.2
I _r (μ A)	Reverse Current (V _r =5V)			10.0
I _v (mcd)	Luminous Intensity/Chip		58	
λ_p (nm)	Peak Wavelength	426	428	430
λ_d (nm)	Dominant Wavelength	464	470	468
$\Delta \lambda$ (nm)	Half-width		60	
τ (ns)	Optical Rise Time		30	

Peak Forward Voltage vs. Forward Current (100 μ s test pulse, 1% duty cycle):



Circuit Diagram:

