

Surface Mount LED

# ARGB1313F



● Die, Package

Items	Value		
	Blue	Green	Red
Emitted Color	Blue	Green	Red
Die Materials	InGaN	InGaN	AlGaInP
Resin Color	Milky White		



\* RoHS compliant / Lead-free soldering compatible

● Absolute Maximum Ratings

(Ta=25°C)

Items	Symbols	Value			Unit	Conditions
		Blue	Green	Red		
Power Dissipation	Pd	58	74	81	mW	
Forward Current	I <sub>F</sub>	15	20	30	mA	
Pulse Forward Current	I <sub>FRM</sub>	100	100	100	mA	tw ≤ 1ms, Duty ≤ 1/20
Reverse Current	I <sub>R</sub>	-	-	-	mA	
Reverse Voltage	V <sub>R</sub>	5	5	5	V	
Operating Temperature	Topr	-40~+85			°C	
Storage Temperature	Tstg	-40~+100			°C	
Derating	ΔI <sub>F</sub>	0.18	0.25	0.4	mA/°C	Ta ≥ 25°C

● Electro-optical Characteristics

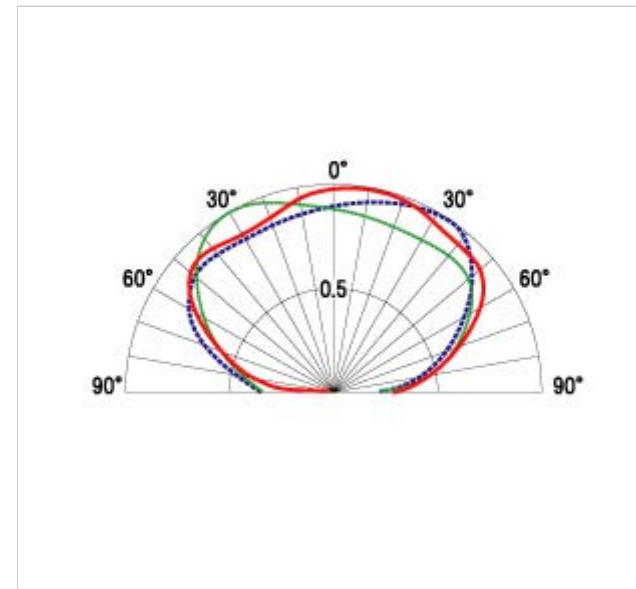
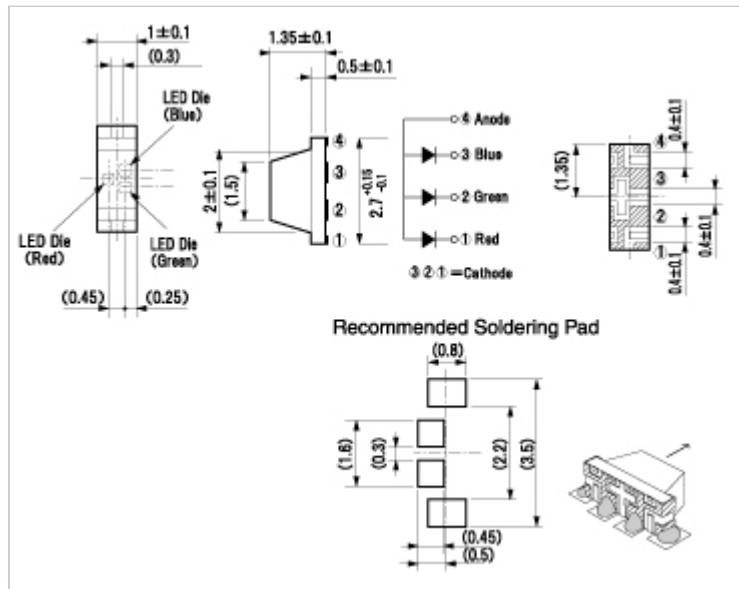
(Ta=25°C)

Items	Symbols		Value			Unit	Conditions
			Blue	Green	Red		
Luminous Intensity	$I_V$	MIN.	12	55	17	mcd	$I_F=5mA$
		TYP.	24	95	35	mcd	$I_F=5mA$
Dominant Wavelength	$\lambda_d$	TYP.	470	525	625	mcd	$I_F=5mA$
Peak Wavelength	$\lambda_p$	TYP.	-	-	-	nm	
Spectral Line Half Width	$\Delta\lambda$	TYP.	25	35	15	nm	$I_F=5mA$
Half Intensity Angle	$2\theta_{1/2}$	TYP.	155( $\theta_x$ ) 160( $\theta_y$ )	155( $\theta_x$ ) 160( $\theta_y$ )	150( $\theta_x$ ) 125( $\theta_y$ )	deg.	$I_F=5mA$
Forward Voltage	$V_F$	TYP.	3.05	3.1	1.9	V	$I_F=5mA$
Reverse Voltage	$V_R$	MAX.	-	-	-	V	
Reverse Current	$I_R$	MAX.	100	100	100	$\mu A$	$V_R=5V$

● Package Dimensions

Unit:mm

● Half Intensity Angle



\*The typical distribution example of each package is shown above.