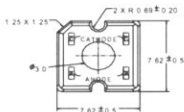


TF916Green

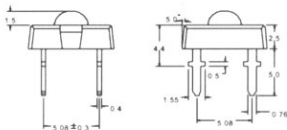
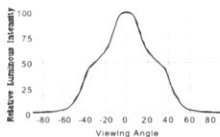
PACKAGE CONFIGURATION

DESCRIPTION

Dice Material : InGaN/SiC Green
 Light Color : Green Color
 Lens Color : Water Transparent



RADIATION PATTERN

Tolerance ± 0.25 mmABSOLUTE MAXIMUM RATINGS AT $T_a = 25^\circ\text{C}$

PARAMETER	MAX.	UNIT
Power Dissipation	260	mW
Continuous Forward Current	50	mA
Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width)	100	mA
Reverse Voltage	5	V
Derating Linear From 50°C	0.7	mA/ $^\circ\text{C}$
Operating Temperature Range	-40 to $+100$	$^\circ\text{C}$
Storage Temperature Range	-55 to $+100$	$^\circ\text{C}$
LED Junction Temperature	125	$^\circ\text{C}$
Soldering Preheat Temperature	100 $^\circ\text{C}$ for 30 seconds	
Lead Solder Temperature (1.5mm Below Seating Plane)	260 $^\circ\text{C}$ for 5 seconds	

ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_a = 25^\circ\text{C}$

SYMBOL	PARAMETER	TEST COND.	MIN.	TYP.	MAX.	UNIT
V_F	Forward Voltage	$I_F = 50\text{mA}$		4.5	5.2	V
I_R	Reverse Current	$V_R = 5\text{V}$			10	μA
λ_p	Peak Emission Wavelength	$I_F = 50\text{mA}$		520		nm
λ_d	Dominant Wavelength	$I_F = 50\text{mA}$		525		nm
$2\theta_{1/2}$	Viewing Angle	$I_F = 50\text{mA}$		60		Deg
I_V / Φ_V	Luminous Intensity / Total Flux			0.8		cd/lm
$R\theta_{\text{J-pin}}$	Thermal Resistance			125		$^\circ\text{C}/\text{W}$

BIN GRADE LIMITS ($I_F = 50\text{mA}$) Total Flux / lm

Bin	C	D	E	F	G	H
Min.	1.3	1.7	2.2	2.8	3.6	4.7
Max.	1.7	2.2	2.8	3.6	4.7	6.0

Tolerance $\pm 15\%$ lm*Dominant Wavelength, λ_d is according to CIE Chromaticity Diagram based on color of the device.* $\theta_{1/2}$ is the off-axis angle where the luminous intensity is one half the on-axis intensity.

*These products are sensitive to static electricity Caution must be taken strictly to avoid static electricity.