



# Apex Science & Eng. Corp.

## (Optoelectronics Div.)

### Surface Mounted Chip LED

### Model No. : RY-SP172DSG74

#### Features :

Compatible with automatic placement equipment  
Compatible with reflow solder process

#### Applications :

Automotive\_Telecommunication  
Indicators  
LCD Back-lights  
Illuminations

Dice Material	Light Color	Lens Color
InGaN	Green	Water Clear

#### Absolute Maximum Ratings

( Ta=25 )

Item	Symbol	Maximum	Unit
Power Dissipation	P <sub>D</sub>	78	mW
Continuous Forward Current	I <sub>F</sub>	30	mA
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I <sub>FP</sub>	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Derating Linear From 25		0.4	mA/
Operating Temperature Range	Topr	-30 to +80	
Storage Temperature Range	Tstg	-40 to +85	

#### Electrical / Optical Characteristics

( Ta=25 )

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	IF=20mA		3.5	4.2	V
Reverse Current	I <sub>R</sub>	VR=5V			10	uA
Peak Emission Wavelength	λ <sub>P</sub>	IF=20mA		510		nm
Dominant Wavelength	λ <sub>D</sub>	IF=20mA		515		nm
Viewing Angle	2θ	IF=20mA		130		Deg
Luminous Intensity	I <sub>V</sub>	IF=20mA	72.0	140.0		mcd

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	B	2003/06/03	
	DIMENSION NO :	CHECKER :	APPROVER :