



# Apex Science & Eng. Corp.

## (Optoelectronic Div.)

### Surface Mounted Chip LED

### Model No. : RY-SP172DBG74

#### ■ 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	Bluish Green	Water Clear

#### Absolute Maximum Ratings

( Ta=25°C )

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°C		0.4	mA/°C
Operating Temperature Range	Topr	-30 to +80	°C
Storage Temperature Range	Tstg	-40 to +85	°C

#### Electrical / Optical Characteristics

( Ta=25°C )

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		500		nm
Dominant Wavelength	λ <sub>D</sub>	IF=20mA		505		nm
Viewing Angle	2θ 1/2	IF=20mA		130		Deg
Luminous Intensity	I <sub>V</sub>	IF=20mA	45.0	110.0		mcd

ISSUE	VERSION :	DATE :	ENGINEER :
	B	2002/04/26	
	DIMENSION NO :	CHECKER :	APPROVER :