



Apex Science & Eng. Corp.

(Optoelectronic Div.)

Surface Mounted Chip LED

Model No. : RY-SP172UDR24

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
AlGaInP	Ultra High Red	Water Clear

Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Maximum	Unit
Power Dissipation	P _D	78	mW
Continuous Forward Current	I _F	30	mA
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	100	mA
Reverse Voltage	V _R	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 _F	IF=20mA		2.1	2.5	V
Reverse Current	I _R	VR=5V			10	uA
Peak Emission Wavelength	λ _P	IF=20mA		655		nm
Dominant Wavelength	λ _D	IF=20mA		640		nm
Viewing Angle	2θ 1/2	IF=20mA		130		Deg
Luminous Intensity	I _V	IF=20mA	20.0	55.0		mcd

ISSUE	VERSION :	DATE :	ENGINEER :
	A	2001/10/12	
	DIMENSION NO :	CHECKER :	APPROVER :