

Spec. No.: HL4055-2D016-ND1X: 660A5940B

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SPECIFICATION

Model Name: Multi Emitters

Model NO. : 2RF58ST-038D

Customer No.:

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Customer approved by: _____



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Multi Emitters

2RF58ST-038(660/940)

■Features

- Lead frame molded packages
- Two and three or four leads designs
- Bi-wavelengths or triple wavelengths LEDs
- Matching detector response

■Applications

- SPO2
- Medical instrumentation
- Blood analysis
- Radiometric instruments



Name	Model	RED	IR	Package
Multi Emitters	IR2R413UT-038	660 nm	940 nm	2-Pin, clear epoxy molded lead frame

■Absolute Maximum Ratings

(Ta= 25 °C)

Parameter	Symbol	Max.	Unit	Note
Power Dissipation	P_d	60	mW	---
Forward Current	I_F	20	mA	---
Peak Forward Current	I_{FP}	100	mA	1/10 Duty cycle, 0.1ms pulse width
Reverse Voltage	V_R	5	V	---
Operating Temperature	T_{opr}	-25~+85	°C	---
Storage Temperature	T_{stg}	-40~+100	°C	---
Soldering Temperature	T_{S01}	260	°C	260°C for 3 Seconds

■Electrical/Optical Characteristics

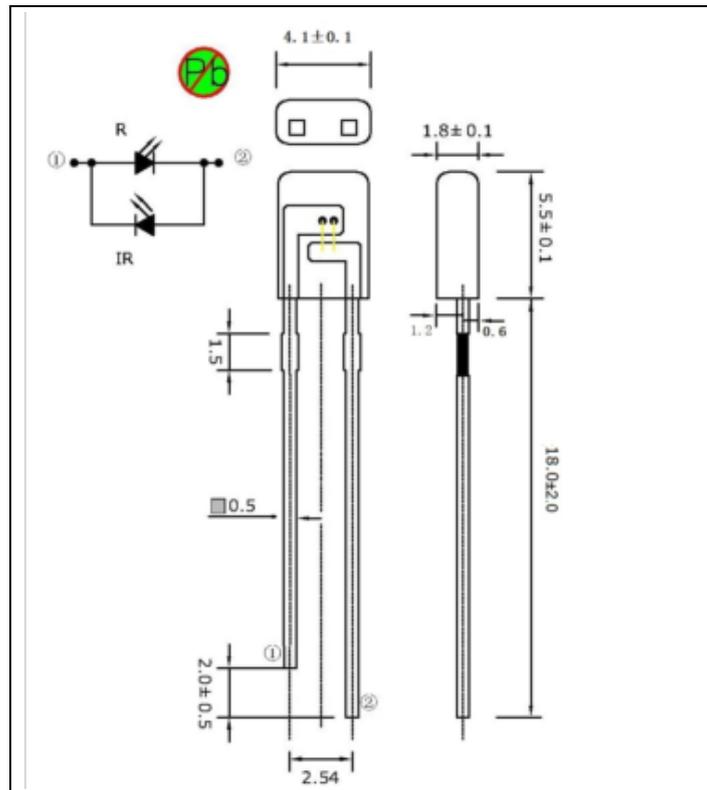
(Ta= 25 °C)

Parameter	Symbol	Min.		Typ.		Max.		Units	Test Conditions
		IRED	RED	IRED	RED	IRED	RED		
Forward Voltage	V_F	--	1.8	1.55	--	1.75	2.4	V	$I_F=20mA$
Reverse Current	I_R	--	--	--	--	10	10	uA	$V_R=5V$
Radiant Power	P_o	1.7	4	--	--	4.0	9	mW	$I_F=20mA$
Peak Wavelength	λ_p	--	--	940	660	--	--	nm	$I_F=20mA$
Spectral Line Half-width	$\Delta\lambda$	--	--	50	15	--	--	nm	$I_F=20mA$

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2RF58ST-038(660/940)

■ Dimension:



Notes: 1. All dimensions are in millimeters

2. Tolerances unless dimensions ± 0.1 mm

■ Storage and Soldering Condition

1. Do not open moisture proof bag before the products are ready to use
2. Before opening the package, the LEDs should be kept at 30°C or less and 90% RH or less.
3. The LEDs should be used within a year.
4. After opening the package, the LEDs should be kept at 30°C or less and 70% RH or less.
5. The LEDs should be used within 168 hours (7 days) after opening the package.
6. If the moisture adsorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment: $60 \pm 5^{\circ}\text{C}$ for 24 hours.
7. When soldering, do not put stress on the LEDs during heating.
8. After soldering, do not warp the circuit board
9. Each terminal is to go to the tip of soldering iron temperature less than 260°C for 5 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.