



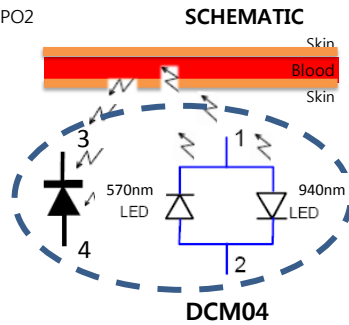
Reflective Blood Sensor DCM04

FEATURES

Integrated Dual Emitter and Photo Detector
Dual Red and IR LED Matched to SPO2
Hermetic Chip on Board Package

APPLICATIONS

Reflective Oximeter Probes
PPG, APG Blood Analysis
Medical Device

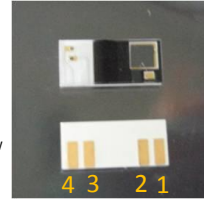


PACKAGE DIMENSION (mm)

w x h x t = 9.8 x 4.3 x 1.3
PAD = 1.1 x 2.5

Top View

Bottom View



ABSOLUTE MAX. RATINGS (Ta=25°C unless otherwise noted)

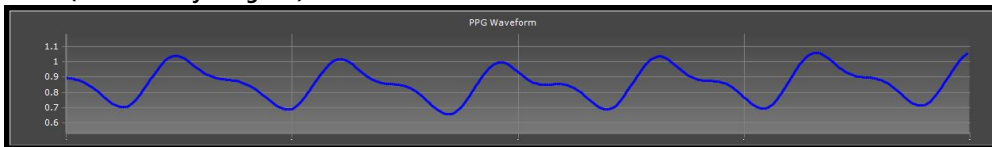
SYMBOL	PARAMETER	MAX. RATED VALUE	UNITS
PD	Power Dissipation	120	mW
IF	Continuous Forward Current	50	mA
IFP	Peak Forward Current	100	mA
VR	Reverse Voltage	5	V
T stg	Storage Temp	-20 ~ +85	°C
T opr	Operating Temp	-20 ~ +80	°C
T sd	Soldering Temperature*1	240	°C

*1. Test Condition : t < 3s

CHARACTERISTICS (Ta=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	COMPONENTS	TEST CONDITION	MIN	TYP	MAX	UNITS
VF	Forward Voltage	LED1	IF=20mA		2.25	2.4	V
		LED2			1.3	1.5	
		PD	IF=10mA	0.5		1.3	
IR	Reverse Breakdown Current	LED1,LED2	VR=5V			10	uA
P O	Output Power	LED1	IF=20mA		2		mW
		LED2			2		
λ PEAK	Peak Wavelength	LED1	IF=20mA		570		nm
		LED2			940		
		PD			940		
Δλ	Half Wave Width	LED1	IF=20mA		30		nm
		LED2			60		
V BR	Reverse Breakdown Voltage	PD	IR=100uA	35			V
I D	Reverse Dark Current		V R=5V			10	nA
I L	Light Current		1mW@940nm		45		uA
S	Spectral Response Range			400		1050	nm
CJ	Junction Capacitance		VR=3V, f=1MHz		44		pF

PPG(Photo Plethysmogram) Characteristic



Packing Information



Anti Static vinyl b

Label sticker

Footprint Top view

