



**FEATURES**

Small size 2 Emitters and Photo Detector  
Chip on Board Package

**APPLICATIONS**

Reflective PPG Probes  
Wavelength Analysis on Skin  
Wearable Medical Device

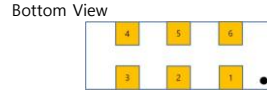
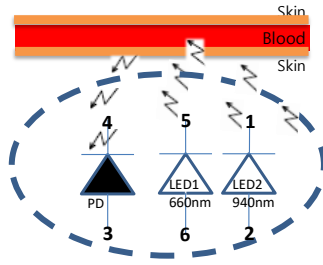
**Reflective Blood Sensor**

**DCM10**

**PACKAGE DIMENSION (mm)**

w x h x t = 3.6 x 1.3 x 1.0  
PAD = 0.45 x 0.45

**SCHEMATIC**



**DCM10**

**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

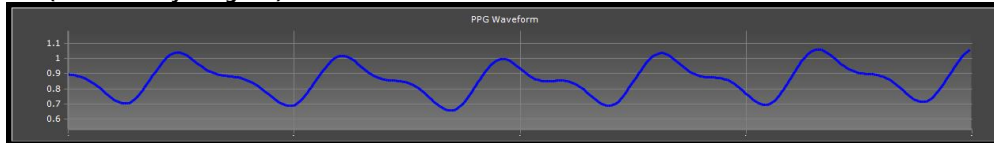
\*Soldering time : t < 3s, \*\*Moisture Sensitivity Level 3

\*\*\*Prebake 150°C 2HRs if Reflow Soldering

**CHARACTERISTICS (Ta=25°C unless otherwise noted)**

SYMBOL	CHARACTERISTIC	COMPONENTS	TEST CONDITION	MIN	TYP	MAX	UNITS
VF	Forward Voltage	LED1	IF=20mA		1.8	2	V
		LED2			1.55	1.75	
		PD		IF=10mA	0.5		
IR	Reverse Breakdown Current	LED1,2	VR=5V			10	uA
P O	Output Power	LED1	IF=20mA		2		mW
		LED2			1.7		
		PD					
λ PEAK	Peak Wavelength	LED1	IF=20mA		660		nm
		LED2			940		
		PD			940		
Δλ	Half Wave Width	LED1	IF=20mA		50		nm
		LED2			50		
		PD					
V BR	Reverse Breakdown Voltage	PD	IR=100uA	35			V
I D	Reverse Dark Current		VR=10V		2	10	nA
I L	Light Current		5VR,1mW/cm²@940nm		7.4		uA
S	Spectral Response Range			400		1050	nm
CJ	Junction Capacitance			VR=3V, f=1MHz		8.1	

**PPG(Photo Plethysmogram) Characteristic**



**Packing Information**



Anti Static vinyl bag

Label sticker

**Footprint**

