

Blood Sensor Detector

DDN2090

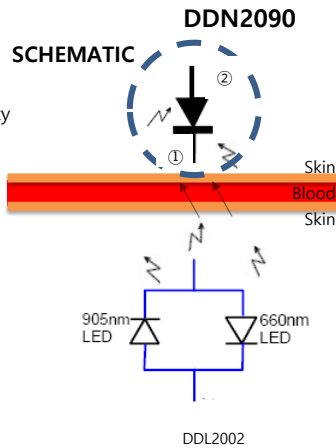
for high reliability

FEATURES

Matching to SPO2 Detector Responsivity
Optical Active Area = 2.2mm x 2.2mm
Hermetic Chip on Board Package

APPLICATIONS

Transmissive (Reflective)
Blood Analysis
Medical Instrumentation
Radiometric Instrument
Oximeter Probes



PACKAGE DIMENSION (mm)

w x h x t = 4.3x 5.5 x 1.3
PAD = 1.5 x 2.5

Top View



Bottom View



CATHODE



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 Sensivity Level 3

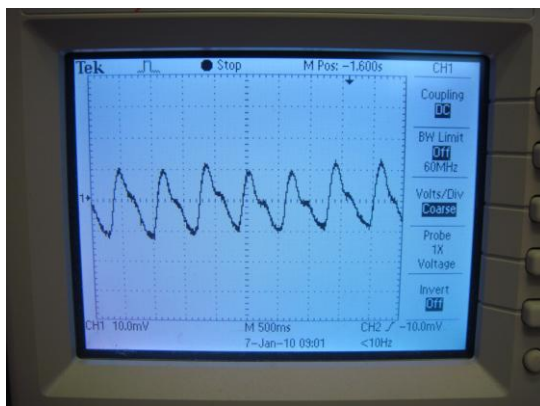
***Prebake 150°C 2HRs if Reflow Soldering

CHARACTERISTICS (Ta=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TEST CONDITION	MIN	TYP	MAX	UNITS
V BR	Reverse Breakdown Voltage	IR=100uA	35			V
I D	Reverse Dark Current	V R=10V			20	nA
I L	Light Current	1mW@940nm		21		uA
S	Spectral Response Range		400		1050	nm
CJ	Junction Capacitance	VR=3V, f=1MHz		20		pF
λ PEAK	Peak Wavelength			940		nm

PPG(Photo Plethysmogram) Characteristic

DDN2090 with DDL2002



Packing Information



Anti Static vinyl bag

Label sticker