



深圳成光兴光电技术股份有限公司

SHENZHEN CGX OPTOELECTRONIC TECHNOLOGY, INC..

样品规格承认书

SAMPLE APPROVAL SHEET

客户名称

Company Name : _____

产品型号

Part Number: **CDPT-5PLC8-020-B5**

送样日期

Sample Date: _____

APPROVED SIGNATURES (供应商确认)		
核准	品保	工程

客户确认：样品承认 不予承认需重新送样 不予承认不需送样

客户建议: _____

APPROVED SIGNATURES (客户确认)		
核准	工程	品保

Add : 深圳市龙华新区观澜章阁村宝观科技园 B 栋

TEL: 86-755-66631006 FAX: 86-755-61899639

E-mail:szcgx@szcgx.com

Http:www.szcgx.com

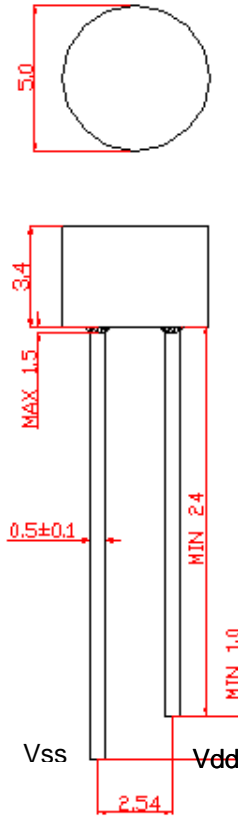


Description

The CPT-5PLC8-** is a NPN silicon phototransistor mounted in a lensed, water clear plastic package. It has a built in optical filter to provide a response which is close to the human eyes

Package Dimensions

Unit: mm



Features

- Wide range of collector current
- Lensed for high sensitivity
- Low cost plastic package

Notes :

1. Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted .
2. Protruded resin under flange is 1.5 mm . max
3. Lead spacing is measured where the leads emerge from the package.

Absolute Maximum Ratings

@ $T_A=25^\circ\text{C}$

Parameter	Maximum Rating	Unit
Power Dissipation	100	mW
Collector-Emitter Voltage	30	V
Emitter-Collector Voltage	5	V
Operating Temperature Range	-20 $^\circ\text{C}$ to +80 $^\circ\text{C}$	
Storage Temperature Range	-25 $^\circ\text{C}$ to +85 $^\circ\text{C}$	
Lead Soldering Temperature	260 $^\circ\text{C}$ for 5 seconds	



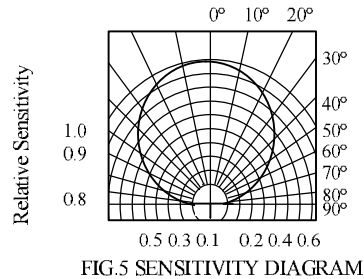
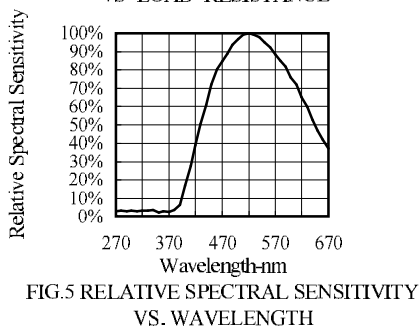
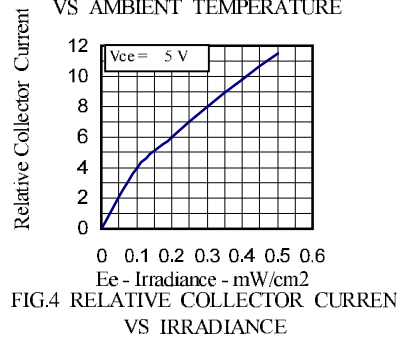
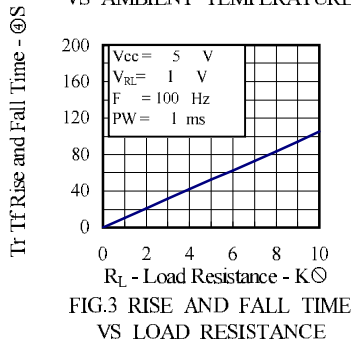
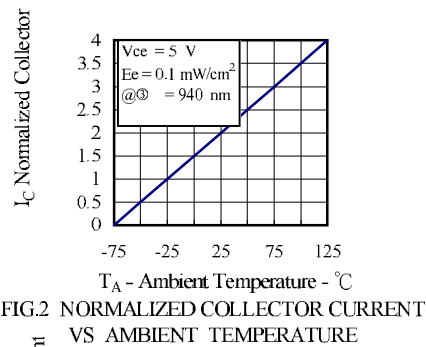
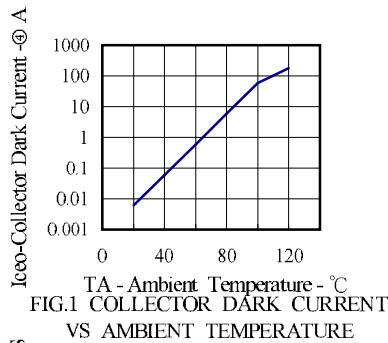
Optical-Electrical Characteristics

@ T_A=25°C

Parameter	Test Conditions	Symbol	Min.	Typ.	Max.	Unit
Collector-Emitter Breakdown Voltage	I _C =0.1mA E _e =0	V _{(BR)CEO}	30	-	-	V
Emitter-Collector Breakdown Voltage	I _E =0.01 mA E _e =0	V _{(BR)ECO}	5	-	-	V
Collector-Emitter Saturation Voltage	I _C =1 5mA E _e =0.1mW/cm ²	V _{CE(SAT)}	-	-	1	V
Rise Time	V _{CC} =5V, R _L =100..	T _r	-	45	-	nS
Fall Time	I _C =10mA	T _f	-	65	-	
Collector Dark Current (Note1)	V _{CE} =5V 0 Lux, T _a = 25°C	I _{CEO}	-	30	100	nA
	0 Lux, T _a = 85°C		-	5	10	uA
On State Collector Current	V _{CE} =5V @CGX 590nm	I _{C(ON)}	3.0	6.0	11.0	uA

(Note1) 光敏管不同于光敏电阻, 光敏管常温下暗电流很小, 但随着温度升高会升高, 故此, 使用光敏管时, 应注意高温时暗电流的变化来设计电路

Typical Optical-Electrical Characteristic Curves





Dark Leakage vs Temperature

