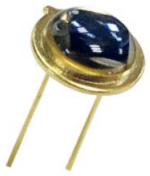
ZPD9435C-S175

Side Look Silicon PIN Photodiode



Descriptions

ZPD9435C-S175 is a high speed and high sensitive PIN photodiode in a standard metal package. The device is matched to infrared emitting diode.

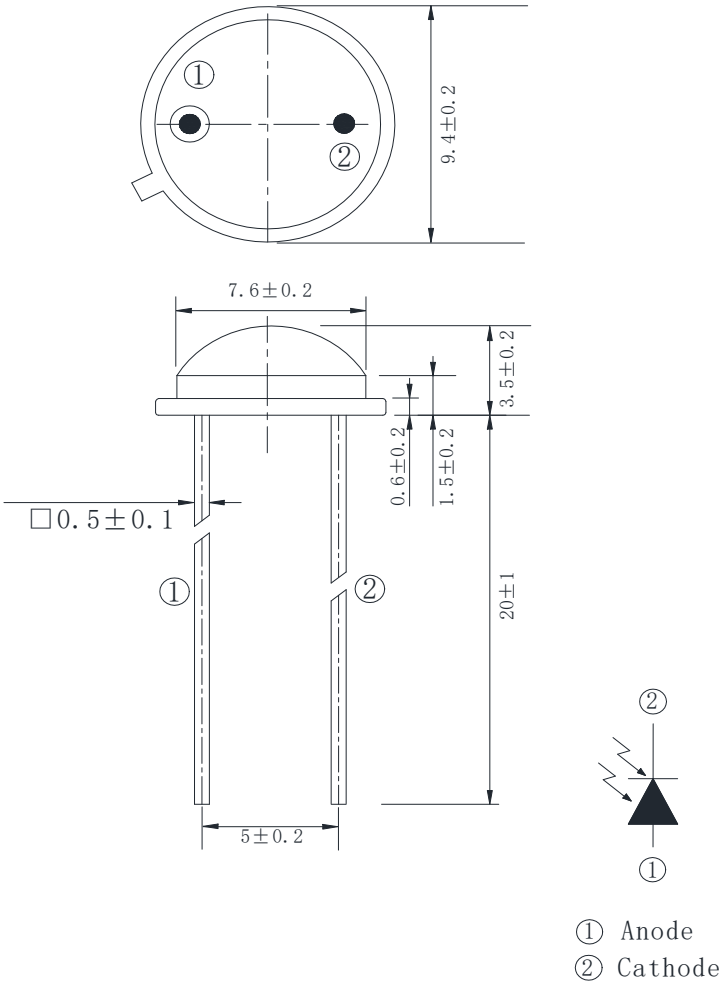
Features

- Fast response time
- High photo sensitivity
- Pb free
- This product itself will remain within RoHS compliant version. Copliance with EU REACH
- Compliance Halogen Free.（Br＜900 ppm，Cl＜900ppm，Br+Cl＜1500ppm）

Applications

- Camera
- Infrared applied system

Package Dimension



Notes:

1. All dimensions are in millimeters
2. Tolerances unless dimensions ±0.25mm

Absolute Maximum Ratings

Parameter（Ta=25℃）	Symbol	Ratings	Unit
Power Dissipation at(or below) 25 Free Air Temperature	Pd	150	mW
Reverse Voltage	V_R	32	V
Operating Temperature	Topr	-40~+100	℃
Storage Temperature	Tstg	-40~+100	℃
Lead Soldering Temperature (2mm form body for 5 seconds)	Tsol	260	℃

Electro-Optical Characteristics

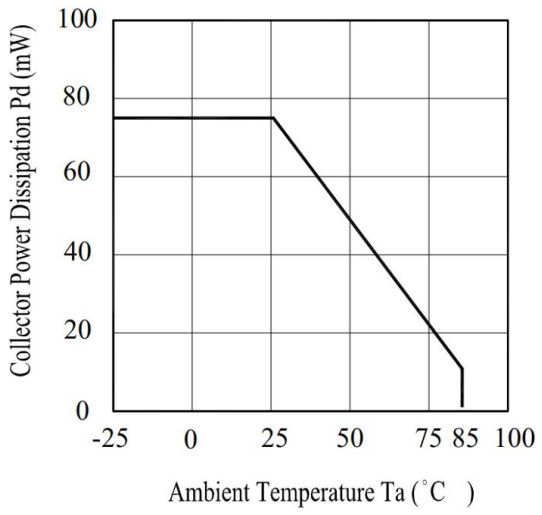
Paramete（Ta=25℃）	Symbol	Condition	Min.	Typ.	Max.	Units
Open-Circuit Voltage	V_{OC}	Ee=5mW/cm2 λp=940nm	0.30	0.32	--	V
Short- Circuit Current	I_{SC}	Ee=1mW/cm2 λp=940nm	93	98	--	μA
Reverse Light Current	I_L	Ee=1mW/cm2 λp=940nm VR=5V	15	--	--	μA
Reverse Dark Current	I_D	Ee=0mW/cm2 VR=10V	--	5	30	nA
Reverse Breakdown Voltage	B_{VR}	Ee=0mW/cm2 IR=100μA	30	--	--	V
Rise Time	tr	VR=10V RL=1000Ω	--	50	--	nS
Fall Time	t_f	VR=10V RL=1000Ω	--	50	--	nS
Total Capacitance	Ct	Ee=0mW/cm2 VR=5V f=1MHz	--	25	--	pF
Rang Of Spectral Bandwidth	$\lambda_{0.5}$	--	430	--	1100	nm
Wavelength of Peak Sensitivity	λ_P	--	--	940	--	nm

Rank

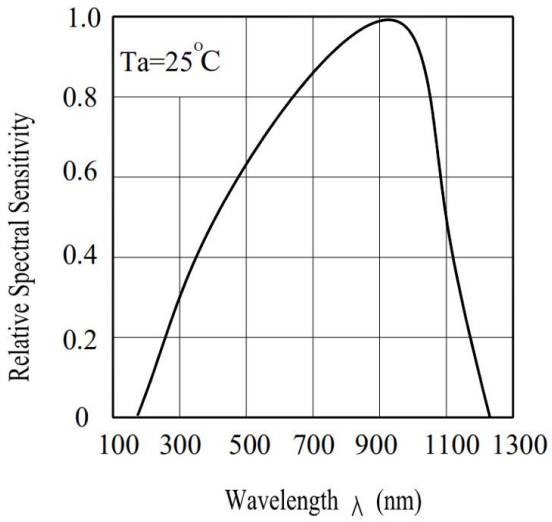
Parameter	Symbol	Condition	Min.	Max.	Unit
BIN1	I_L	Ee=1mW/cm2 λp=940nm VR=5V	15	--	μA

Typical Electro-Optical Characteristics Curves

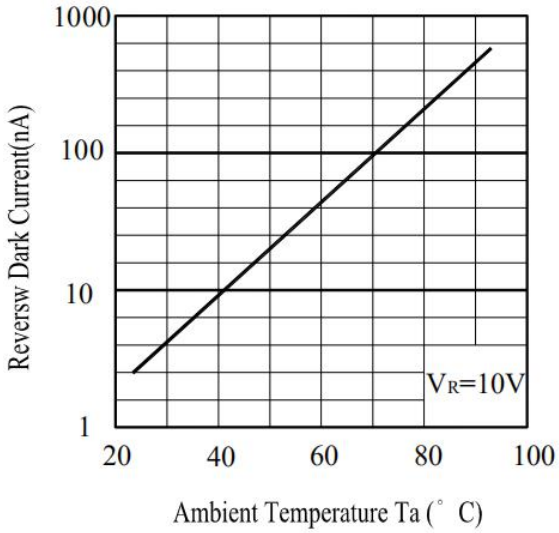
Collector Power Dissipation vs. Ambient Temperature



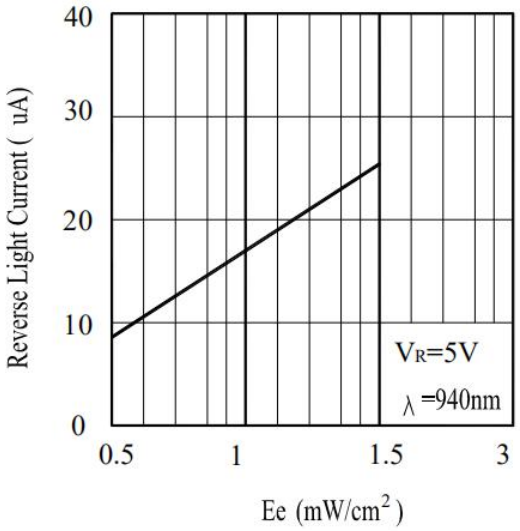
Spectral Sensitivity

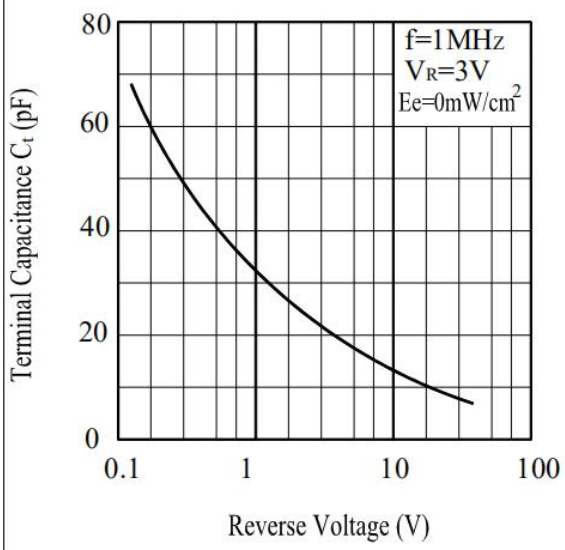
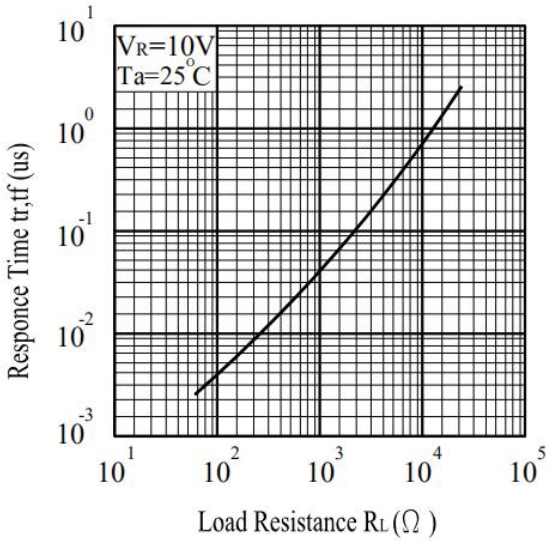


Dark Current vs. Ambient Temperature



Reverse Light Current vs. Ee



Terminal Capacitance vs. Reverse Voltage	Response Time vs. Load Resistance
	

Packing Quantity Specification

1. 8 0 PCS/1Bags,

Notes

1．Above specification may be changed without notice. CHAULIGHT will reserve authority on material change for above specification.

2．When using this product, please observe the absolute maximum ratings and the instruction for using outlined in these specification sheets.CHAULIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.

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