

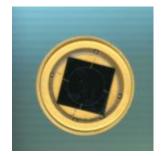




Large Active Area Si PIN Photo Diode IP-Si 3253Y

Characteristics:

Large Active Area . Fast Response . Low Dark Current . High Responsivity . High Reliability .



Applications:

Opto-Electronic Target Detecting System . 0.4-1.1 μ m Light Detection And OE ConveIPion System . Physical and Chemical Process Optical Detecting .

Mechanism:

Device works at reveIPe bias condition, and built as Si-PIN structure.

Technical Parameter(TA=23 ℃)

Parameter	Symbol	Test Conditions	Тур	oical	Unit
Active Area	Φ		10	10 II	
Spectrum Response Range	λ		400~1100		nm
Responsivity	Re	V _R =15V λ=900nm	0.5	0.43	ΑW
		V _R =15V λ=0.6nm	0.25	0.35	AW
Response Time	tr	V _R =15V R=50Ω	200	500	nS
Dark Current	Ip	V _R =15V	100	100	nA
Reverse Break Down Voltage	V _{BR}	I _R =10µA	80	50	٧
Capacitance	Cj	f=1MHz V _R =15V	90	150	pF
Operating Voltage			5-40		٧
Package		TO-18			
	Response Time Dark Current Reverse Break Down Voltage Retaing Voltage	Active Area Φ Spectrum Response Range λ Responsivity Re Response Time tr Dark Current I _D Reverse Break Down Voltage V _{BR} Capacitance C _j erating Voltage V _R	Active Area Φ Spectrum Response Range λ Responsivity Φ Responsivity Φ Responsivity Φ Response Time Φ Dark Current Φ Φ Φ Φ Φ Φ Φ Φ	Active Area Φ 10 Spectrum Response Range λ 400- Responsivity Re λ 70.5 Responsivity λ 900nm λ 0.5 Response Time λ 70.25 Response Time λ 80 Capacitance λ 80 Capacitance λ 80 The spectrum λ 80 Capacitance λ 80	Active Area Φ 10 10 II Spectrum Response Range λ $400 \sim 1100$ Response Range λ $V_R = 15V$ 0.5 0.43 $V_R = 15V$ $\lambda = 900$ nm 0.25 0.35 Response Time tr $V_R = 15V$ 0.25 0.35 Response Time tr $V_R = 15V$ 0.25 0.35 Dark Current I_D $V_R = 15V$ 0.0 0.0 Reverse Break Down Voltage V_BR $I_R = 10\mu A$ 0.0 0.0 Capacitance C_j 0.0 0.0 0.0 0.0 erating Voltage V_R 0.0 0.0 0.0 0.0





Typical Operating Characteristics

Fig. 1 Spectrum response curve

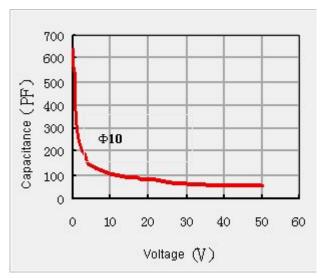
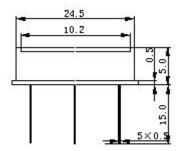
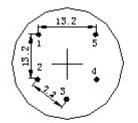
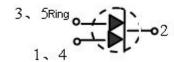


Fig. 2 C-V curve

Package Size and Application Method (Back side View)







7.Note

The device works under the reveIPe bias condition .

No Vibration and shock when device operating .

Static Charge Protection (Storage, Operating) .