SUNRISE LED

TECHNOLOGY DATA SHEET & SPECIFICATIONS

Features

'Fast response time

- 'High photo sensitivity
- 'Small junction capacitance
- ' Pb free

Descriptions

3201-BD is a high speed and high sensitive PIN photodiode in a standard 3 plastic package. The device is matched to infrared emitting diode.

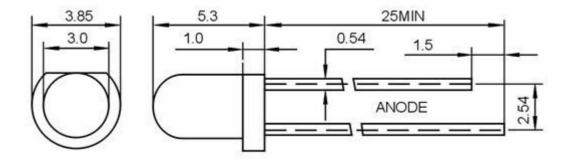
Applications

Automatic door sensor Copier Game machine

Device Selection Guide

	Chip	Lens Color		
LED Part No.	Material			
3201-BD	Silicon	Black		

Package Dimensions



UNIT:mm

MODEL <u>3201-BD</u>



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MODEL <u>3201-BD</u>

Notes:

1.All dimensions are in millimeters

2.Tolerances unless dimensions ±0.1mm

Absolute Maximum Rating (Ta=25)

Parameter	Symbol	Absolute Maximum Rating	Unit
Reverse Voltage	V _R	30	V
Power Dissipation	P _D	100	mW
Operating Temperature	Topr	-25 +85	
Storage Temperature	Tstg	-40 +85	
Soldering Heat (5s)	Tsol	260	

Notes: *1:Soldering time 5 seconds.

Electro-Optical Characteristics (Ta=25)

Parameter	Symbol	Min.	TYP.	Max.	Unit	Condition
Collector-Emitter Breakdown Voltage	V _{BR CEO}	30			V	I _C =100μA I _B =0
Collector-Emitter Breakdown Voltage	V _{BR ECO}	5			V	$I_E = 100 \mu A$

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		-	-	M	ODEL	<u>3201-BD</u>
						I _B =0
Collector-Emitter Saturation Voltage	V _{CE (SAT)}			0.4	V	I _c =0.1mA H=2.5mW/c
Collector Dark Current	I _D			100	nA	V _{CE} =10V H=0mW/c
Rise Time (10% to 90%)	T _R		15		μs	V _{CE} =5V I _C =1mA
Fall Time (90% to 10%)	T _F		15		μs	$R_L = 100\Omega$
On State Collector Current	I _(ON)		4		mA	$V_{CE} = 5V$ $E_e = 1 \text{mW/c}$ $\lambda = 940 \text{nm}$
Angular Response	Θ		±6		Deg	