

尚宸电子(惠州)有限公司 廣東省博羅縣罗阳江恬 22 号 Mob:15338203608



PHOTODIODE

1.ELEMENT APPEARANCE

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Model No.	Material		Lighting Color		Resin Color				
RT3-2324SDBS-M S		Silicon		Non-Visible			Black		
2.ABSOLUTE MAXIM	UM RAT	TINGS A	ТТ	a=25℃					
Charac	teristic			Symbol		Ratir	ng	J	Jnit
Operating temperature				Topr	-25	to	+ 85		°C
Storage temperature				Tstg	-40	to	+100		°C
Lead soldering temperature (3mm from body) 260°C for 5sec.									
3.ELECTRO-OPTICAL CHARACTERISTICS AT Ta=25°C									
Forward Voltage		VF		If=10 mA , H=0	0.	5	1.3		V
Reverse breakdown voltage	e	VBR		$\mbox{Ir=100}\mu\mbox{A}$, H=0	3	5			V
Light current		IL		Vce= 10 V Ee= 0.5 mW/cm ² λ p= 940 nm	1	0	17	-	mA
Total capacitance		Ct	V _R =	= 3V, H=0, F=1MHZ	Z		4.9		pF
Reverse dark current		ID		$V_{\text{R}}{=}10V$, $H{=}0$			2	10	nA
Peak sensitive wavelength		λp					940		nm
Viewing angle		$2\theta 1/2$					30		deg.

※ IL 誤差值±15% μA

4.DIMENSIONS UNIT : m/m

SIGN: 1.CATHODE

2.ANODE





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APPLICATION NOTES:

Static Electricity and Surge

Static electricity and surge damage LEDs. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.

Lead Forming

The leads should be bent at a point at least 3mm from the epoxy resin of the LEDs. Bending should be performed with the base firmly fixed by means of a jig or radio pliers.

Mounting Method

The leads should be formed so they are aligned exactly with the holes on the PC board. This will eliminate any stress on the LEDs.

Use LEDs with stoppers or resin spacer to accurately position the LEDs.

The epoxy resin base should not be touching the

PC board when mounting the LEDs.

Mechanical stress to the resin may be caused by the warping of the PC board when soldering.

The LEDs must not be designed into a product or system where the epoxy lens is

pressed into a plastic or metal board. The lens part of the LED

must not be glued onto plastic or metal. The mechanical stress to the leadframe must be minimized.

Soldering

Solder the LEDs no closer than 3mm from the base of the epoxy resin.

For solder dipping, it may be necessary to fix the LEDs for correct positioning.

When doing this, any mechanical stress to the LEDs must be avoided.

When soldering, do not apply any mechanical force to the leadframe while heating. Repositioning after soldering must be avoided.

Soldering conditions:						
Lamp	Soldering Iron	Dip Soldering	Reflow Soldering			
LED	300degC(max), 3sec(max)	260degC(max), 5sec(max)	Not allowed.			







<u> ストッパー</u>





PACKAGING STANDARD

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The boxes are not water resistant and they must be kept away from water and moisture. The LEDs are packed in cardboard boxes after packaging in normal or anti-electrostatic bags. Cardboard boxes will be used to protect the LEDs from mechanical shocks during transportation. 1000pcs/bag



CONDITIONS:

The reliability of products shall be satisfied with items listed below.

NO.	ltem	Condition	Time/Cycle	Number of Damaged
1	Soldering Heat Test	260° C	5 sec	0/60
2	Thermal Shock	0℃(15sec) ~100℃(15sec)	20 cycle	0/60
3	High Temp. Storage	100 ℃	1000 Hrs	0/60
4	Low Temp. Storage	-25 ℃	1000 Hrs	0/60
5	Temperature Cycle Test	-40° ℃~85°℃	100 Cycles 200Hr	0/60
6	High Temp. High Humidity Test	85℃, 85% RH	1000Hrs	0/60