

Type No. : S10341-02

Ratings and characteristics
Absolute maximum ratings

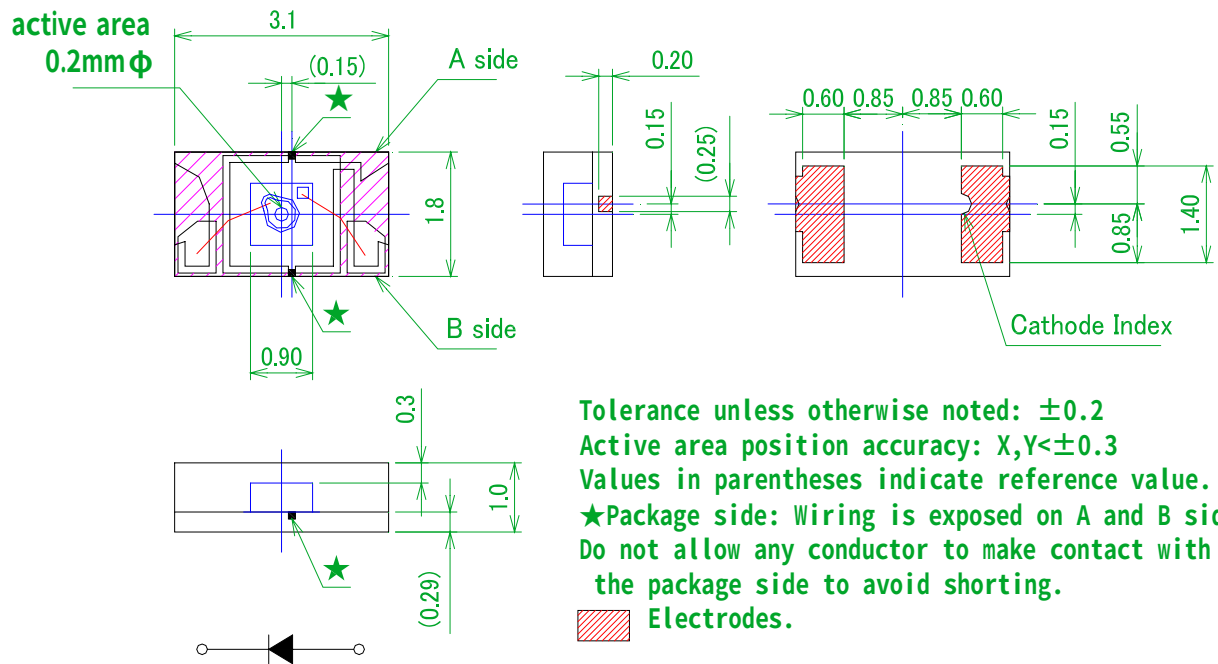
Parameter	Symbol	Value	Unit	Remark
Operating temperature	Topr	-20 to +60	°C	
Storage temperature	Tstg	-40 to +80	°C	

Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Spectral response range	λ	M=1	--	400 to 1000	--	nm
Peak sensitivity wavelength	λ_p	M=100	--	800	--	nm
Photo sensitivity	S	M=1, $\lambda=800\text{nm}$	--	0.5	--	A/W
Quantum efficiency	QE	M=1, $\lambda=800\text{nm}$	--	75	--	%
Breakdown voltage	V _{BR}	I _D =100 μ A	--	150	200	V
Temperature coefficient of V _{BR}	γ		--	0.65	--	V/°C
Dark current	I _D	M=100	--	0.05	0.5	nA
Cut-off frequency	f _c	M=100, $\lambda=800\text{nm}$, R _L =50 Ω , -3dB	--	1000	--	MHz
Terminal capacitance	C _t	M=100, f=1MHz	--	1.5	--	pF
Excess noise figure	x	M=100, $\lambda=800\text{nm}$	--	0.3	--	
Gain	M	$\lambda=800\text{nm}$	--	100	--	

Type No. : S10341-02

Dimensional outline (Unit : mm)



Tolerance unless otherwise noted: ± 0.2

Active area position accuracy: $X, Y < \pm 0.3$

Values in parentheses indicate reference value.

★ Package side: Wiring is exposed on A and B side. Do not allow any conductor to make contact with the package side to avoid shorting.

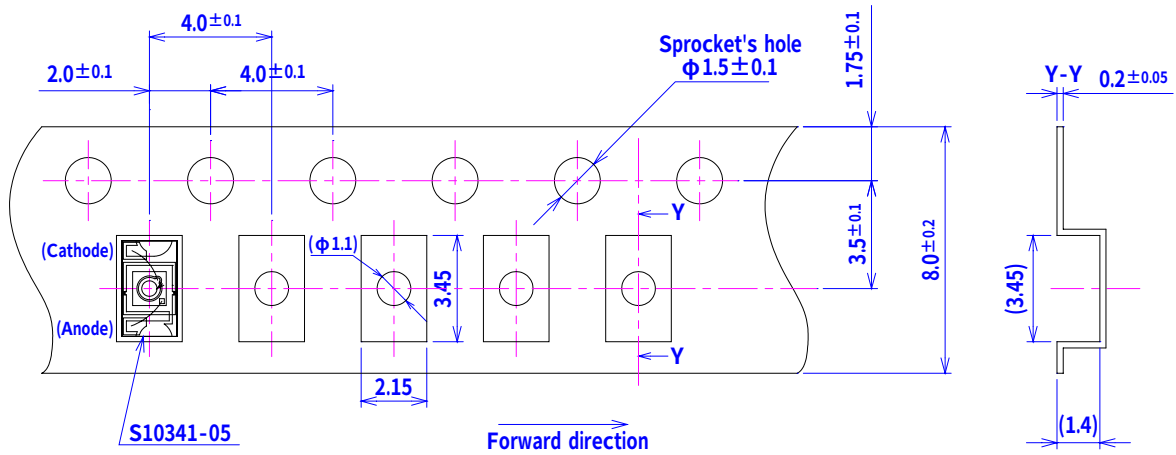
Electrodes.

Type No. : S10341-02

Packing specifications

Embossed tape carrier

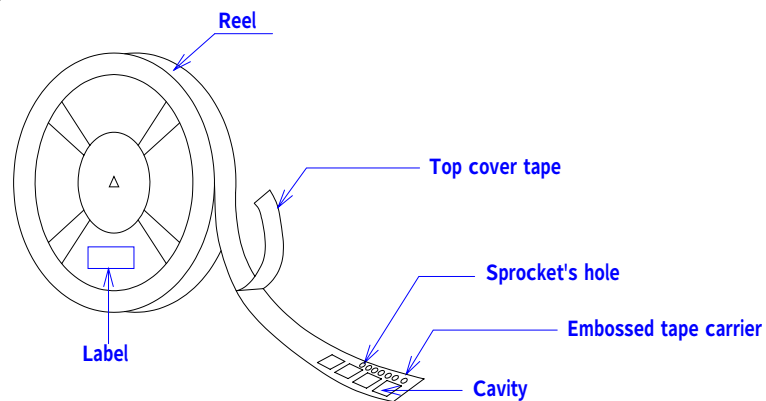
Width : 8mm, Pitch : 4mm



* Unit : mm

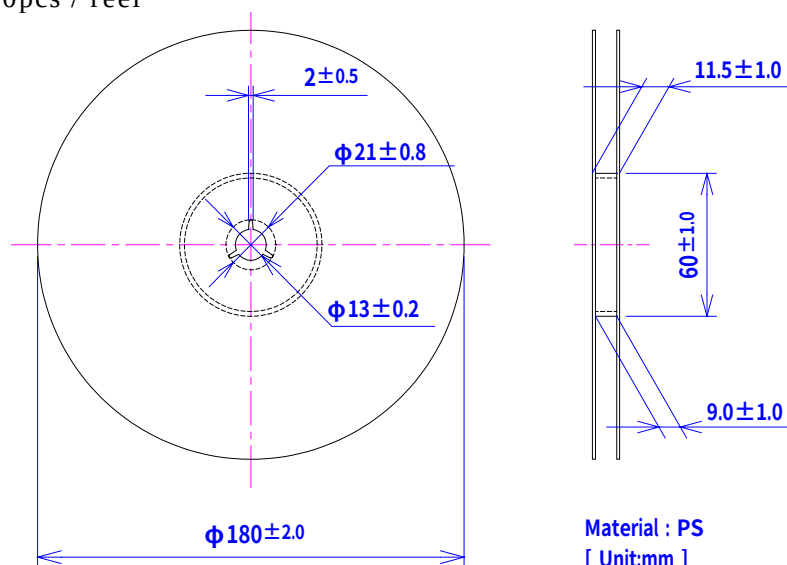
* Material : Conductive PS

Taping to reel



Reel

Max. 1000pcs / reel



Material : PS
[Unit:mm]

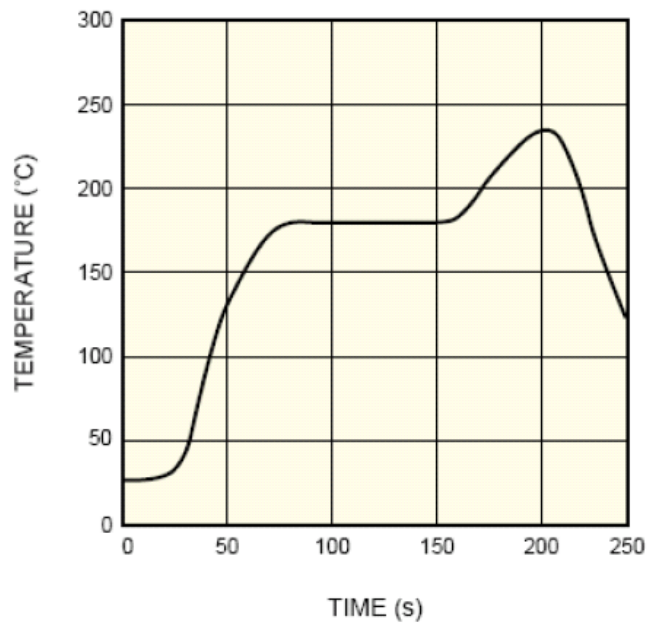
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Precautions for handling**Solder reflow**

A trouble caused by solder reflow should depend upon a board used and a solder reflow furnace. Some examples are as below, so the conditions should be examined at a mass-production.

Set the soldering conditions so that the soldering temperature changes at the rate of 4°C per second maximum because sudden temperature changes may be a cause of trouble in solder reflow.

Ex. Temperature profile of solder reflow



* S10341-02 has to be handled according to JEDEC 5a.

* Reflow peak temperature Max. 235°C.

Cleaning

When removing stains and dirt from the resin surface, use a cotton swab moistened with alcohol and wipe gently, being careful not to cause any damage.

Do not use ultrasonic cleaning methods on these devices.