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TENTATIVE

1. Applications

This specification appl es to the NE5100 solar cell.

2. Outline

Substrate	p type polycrystalline silicon			
Structure	n ⁺ / p / p ⁺			
Dimensions	Refer to the drawing	SSE95153, SSE95154		
Mass	15.5 g			

3. Specifications

3.1 Dimensions

 $L1=126\pm2 \text{ mm}$, $L2=126\pm2 \text{ mm}$

3.2 Electrical characteristics

Characteristic	Symbol	Min.	Typ.	Unit
Open circuit voltage	Voc		595	m V
Short circuit current	Isc	_	5.16	A
Maximum power	Pm	1.99	2.22	Y

Conditions:

Irradiance = 1000W/m^2

calibrated using Sharp standard cell.

Light source = Xenon short arc amp with AM1.5 Filter

Cell temperature = 25%

3.3 Absolute maximum ratings

Rating	Value	Unit
Operating temperature	-40 ~ +90	, C
Storage temperature	-40 ~ +90	" C

4. Incoming inspection

Incoming inspection for Sharp products are shown below.

4.1 Inspection

All of products shall be inspected.

Judgement criterions are as follows.

- (1) Dimensions $L1=126\pm2$ mm, $L2=126\pm2$ mm
- (2) Electrical characteristic Maximum power (rein) = 1.99 W under the conditions of item 3.2
- 4.2 Disposal of rejected products

Object products judged as rejected products due to Sharp's responsibility in the incoming inspection by user \square ay be ab e to be return to Sharp.

TENTATIVE

5. Packing

25 pcs. of products shall be put into a packing case as shown in SSE95155.

6. Notes

6.1 Handling

Avoid the handlings mentioned below, because it causes degradation of electrical or soldering performance.

"Handling with bare hands.

- -Contact with corrosive chemicals or gases.
- Scrubbing the products surface. etc

So handle products carefully with plastic tweezers.

Avoid twisting, dropping or picking the products and so on, because it causes breakage or crack.

6.2 Connecting

When this products are connected in series or parallel and exposed to sunlight, they produce high voltage and current. In such case, never touch the output wires with bare hands not to receive an electric shock. Long time heating causes an electrode damage, so please make short the soldering time as far as possible.

 $\langle\!\langle$ Recommendable soldering conditions $\rangle\!\rangle$

Soldering heat time 1~2 s

Soldering iron temperature: approximately 300%.

Flux(if necessary) non-corrosive mildly activated flux

(Remove flux completely after soldering

with alcohol and acetone.)

Never assemble this products with other kinds of solar cells, because it may cause the hot-spot problem.

6.3 Storage

Keep away products from corrosive chemicals or gases and keep them in a strage box filled up with pure nitrogen gas or clean dry air at 10N3OT.

6.4 Humidity resistance

This products have no humidity resistance.

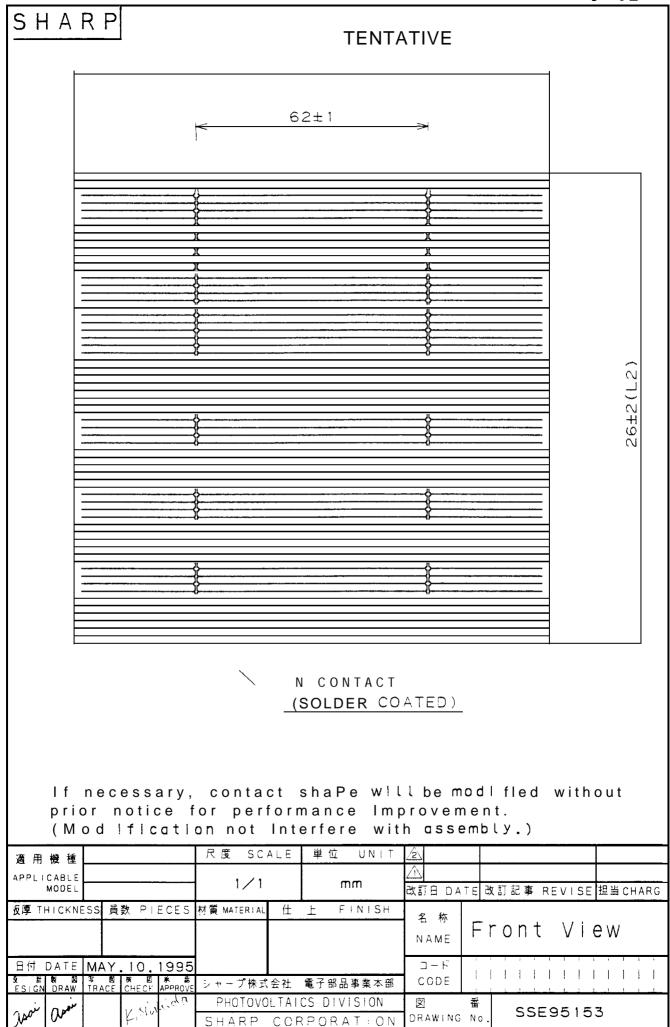
So cover the products with glass, wetproof films and resin to perform a long term reliability.

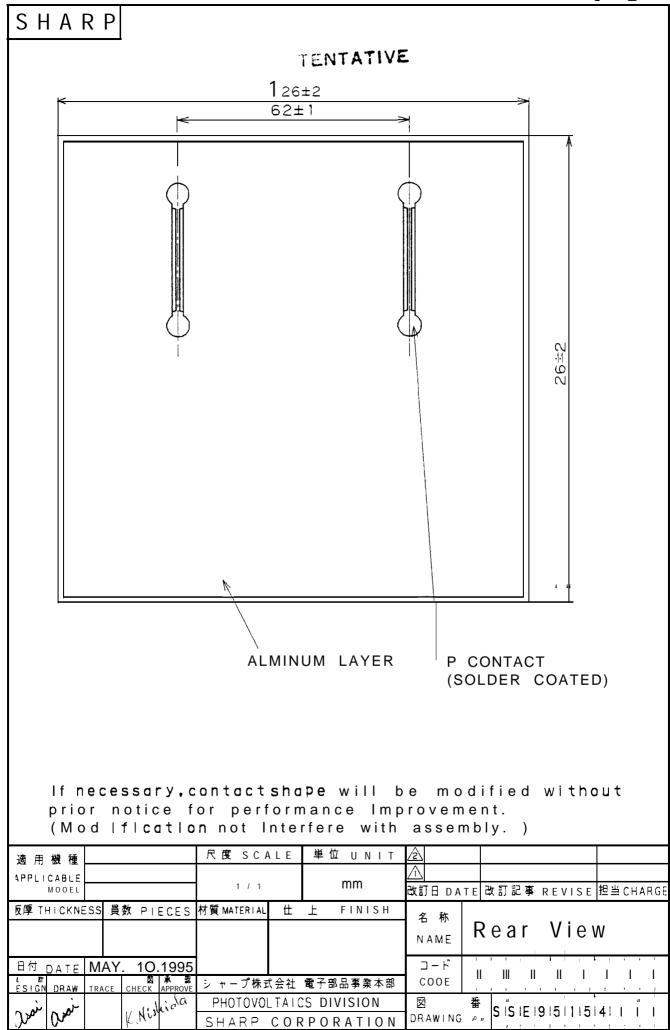
6.5 COCOM

This product is neither designed as radiation resistance nor for space use.

7. Other

Any doubt provided in the above or any troubles on testing shall be determined in good faith upon mutual consultation of the both parties, however, in case of no consultation, the settlement shall be depend upon Sharp's judgement.





THIS DRAWING WILL BE SUBJECT TO MODIFICATION WITHOUT PRIOR NOTICE FOR PERFORMANCE IMPROVEMENT.

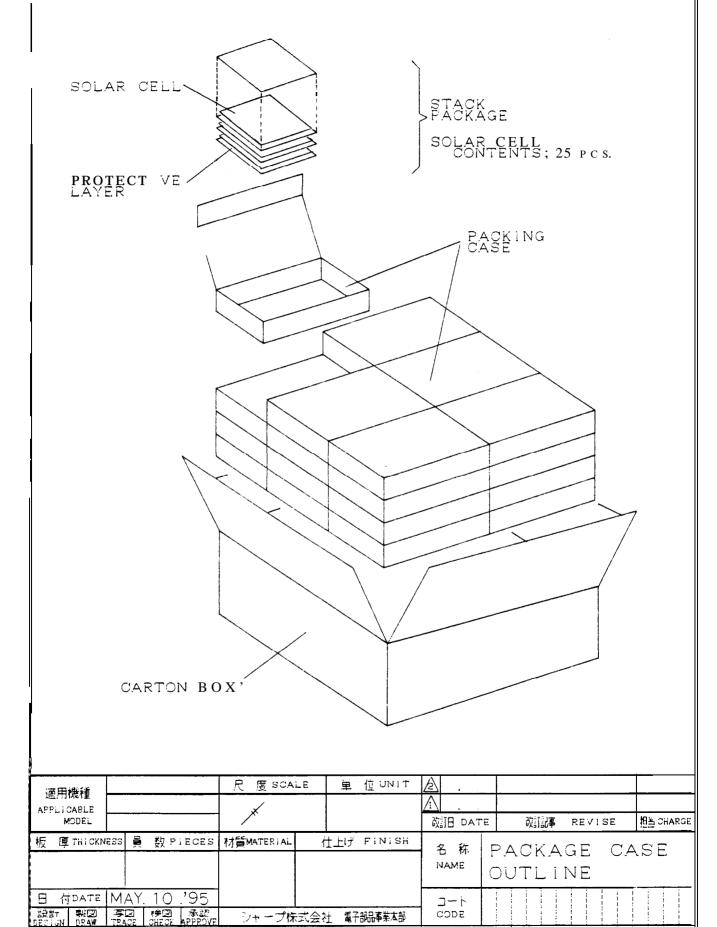


図 番 DRAWING No SSE 95155

太陽電池事業部 技術部

SHARP

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