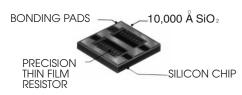
# State of the Art, Inc. 0303 Thin Film On Silicon Resistor Surface Mount, Top-Side Termination/Bottom Isolated



(STYLE DEPENDS ON VALUE)

## **FEATURES**

- Tolerances to ±0.1%
- Operating temperature range : -55□C to +150□C
- For high-density hybrid circuits where space is at a premium.
- TCR's to ± 25 ppm
- Delivers greater power handling capability and lighter weight for the size than chips constructed on alumina.

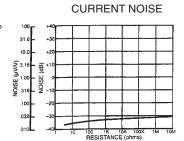
## PERFORMANCE CHARACTERISTICS

Resistance Range (1) Tolerances (2) 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10% Maximum Power 250 mW Maximum Voltage 100 Volts

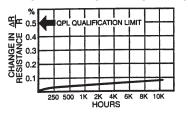
#### **ENVIRONMENTAL PERFORMANCE**

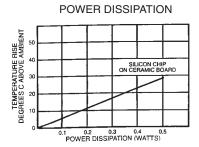
(1) Minimum resistance range at 0.1% tolerance is 100 ohms.

(2) ±0.05% in limited availability - consult factory

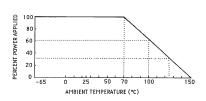








#### POWER DERATING



### S0303AS 150 J H W

TERMINATION MATERIAL
W: Gold A: Aluminum
TCR
E: ±25 ppm H: ±50 ppm K: ±100 ppm

TOLERANCES
B: 0.1% C: 0.25% D: 0.5% F: 1% G: 2% J: 5% K: 10% M: 20%

**RESISTANCE VALUE** 

Three or four digits are used with all leading digits significant. Four digits are used for 1% tolerance or lower, otherwise three digits are used. The last digit specifies the number of zeros to add. The letter "R" is used to represent the decimal for fractional ohmic values. Example: 5R6 is 5.6 ohms.

## **MECHANICAL**

| NCHES | MM | 76 (+.05/-.05) | Midth | .030 (+.002/-.002) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (+.05/-.05) | .76 (

Approx. Weight .00042 grams

## **PACKAGING**

Silicon chips are only packaged in waffle pack at a maximum of 400 per tray.

## **OPTIONS**

SOTA offers a full line of component parts in the 0303 size including termination style D (top-side termination with isolated metalized bottom) and style F (Back Contact Resistor - BCR). Also offered are multi-tap and center-tap configurations.

**STATE OF THE ART, INC.** 2470 Fox Hill Road, State College, PA 16803-1797 Phone (814) 355-8004 Fax (814) 355-2714 **Toll Free 1-800-458-3401** 

Where Quality Isn't a Goal...It's Our Tradition