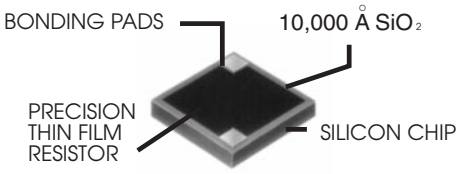
State of the Art, Inc.
0202 Thin Film On Silicon Resistor
Surface Mount, Top-Side Termination/Bottom Isolated



(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

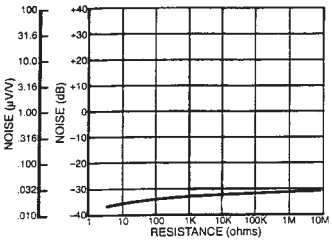
Resistance Range (1)	5Ω – 250KΩ
Tolerances (2)	0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10%
Maximum Power	100 mW
Maximum Voltage	100 Volts

ENVIRONMENTAL PERFORMANCE

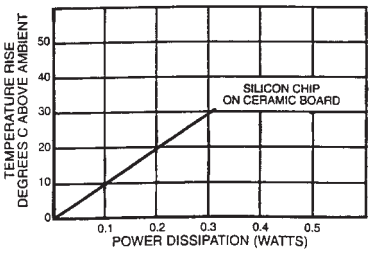
TCR (-55 to +125 °C in ppm/°C)	< 25 ppm
Thermal Shock	±0.02%
Low Temperature Operation	±0.02%
Short-time Overload	±0.02%
Resistance to Bonding Exposure	±0.03%
Moisture Resistance	±0.05%
High Temperature Exposure	±0.05%
Life	See Chart

(1) Minimum resistance range at 0.1% tolerance is 100 ohms.
(2) ±0.05% in limited availability - consult factory

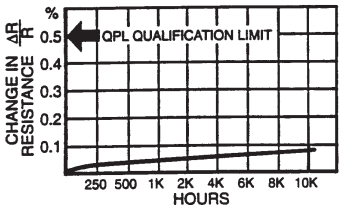
CURRENT NOISE



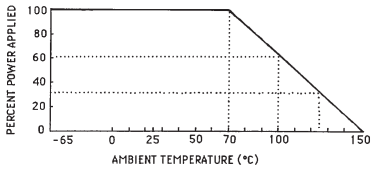
POWER DISSIPATION



TYPICAL LIFE TEST PERFORMANCE



POWER DERATING



S0202AS 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

	INCHES	MM
Length	.020 (+.002/-.002)	.51 (+.05/-.05)
Width	.020 (+.002/-.002)	.51 (+.05/-.05)
Thickness	.009 - .012	.23 - .30
Termination	.004 - .006	.10 - .15

Approx. Weight .00018 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 0202 size including termination style D (top-side termination with isolated metalized bottom) and style F (Back Contact Resistor - BCR).

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