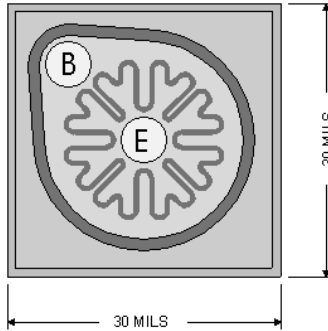




Data Sheet No. 2C3501

Chip Type 2C3501
Geometry 5620
Polarity NPN

Generic Packaged Parts:
2N3498, 2N3499, 2N3500,
2N3501



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Chip type **2C3501** by Semicoa Semiconductors provides performance similar to these devices.

Product Summary:

APPLICATIONS: Designed for switching and amplifier applications.

Part Numbers:

2N3498, 2N3498L, 2N3499, 2N3499L, 2N3500, 2N3500L, 2N3501, 2N3501L

Features:

| Mechanical Specifications | | |
|---------------------------|-------------------|-------------------|
| Metallization | Top | Al - 22.5 kÅ min. |
| | Backside | Au - 6.5 kÅ nom. |
| Bonding Pad Size | Emitter | 5.0 mils diameter |
| | Base | 5.0 mils diameter |
| Die Thickness | 8 mils nominal | |
| Chip Area | 30 mils x 30 mils | |
| Top Surface | Silox Passivated | |

| Electrical Characteristics | | | | |
|----------------------------|--|-----|-----|------|
| $T_A = 25^\circ\text{C}$ | | | | |
| Parameter | Test conditions | Min | Max | Unit |
| BV_{CEO} | $I_C = 10.0 \text{ mA}, I_B = 0$ | 150 | --- | V dc |
| BV_{CBO} | $I_C = 10 \mu\text{A}, I_E = 0$ | 150 | --- | V dc |
| BV_{EBO} | $I_E = 10 \mu\text{A}, I_C = 0$ | 6.0 | --- | V dc |
| I_{CBO} | $V_{CB} = 75 \text{ V}, I_E = 0$ | --- | 50 | nA |
| h_{FE} | $I_C = 150 \text{ mA dc}, V_{CE} = 10.0 \text{ V}$ | 100 | 300 | --- |

Due to limitations of probe testing, only dc parameters are tested. This must be done with pulse width less than 300 μs , duty cycle less than 2%.

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