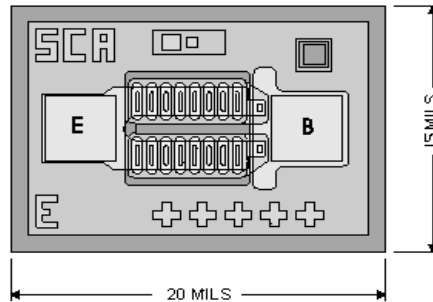


Chip Type 2C3866A
Geometry 1007
Polarity NPN

Generic Packaged Parts:
2N3866, 2N3866A



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Chip type **2C3866A** by Semicoa Semiconductors provides performance similar to these devices.

Part Numbers:

2N3866A, 2N3866, 2N3866AUB, SD3866A, SD3866AF, SQ3866A, SQ3866AF

Product Summary:

APPLICATIONS: Designed for amplifier, frequency multiplier and oscillator applications. Suitable for output, driver and predriver stages in VHF and UHF equipment.

Features: Special Characteristics:

ft = 950 MHz (type) at 50 mA/15V

| Mechanical Specifications | | |
|---------------------------|-------------------|---------------------|
| Metallization | Top | Al - 15 kÅ min. |
| | Backside | Au - 6.5 kÅ nom. |
| Bonding Pad Size | Emitter | 3.4 mils x 3.0 mils |
| | Base | 3.4 mils x 3.0 mils |
| Die Thickness | 8 mils nominal | |
| Chip Area | 15 mils x 20 mils | |
| Top Surface | Silox Passivated | |

| Electrical Characteristics | | | | |
|----------------------------|---|-----|-----|------|
| T _A = 25°C | | | | |
| Parameter | Test conditions | Min | Max | Unit |
| BV _{CEO} | I _C = 5.0 mA | 30 | --- | V dc |
| BV _{CBO} | I _C = 100 µA | 55 | --- | V dc |
| BV _{CER} | I _C = 5.0 mA, R _{BE} = 10 Ohms | 55 | --- | V dc |
| BV _{EBO} | I _E = 100 µA | 3.5 | --- | V dc |
| I _{CEO} | V _{CE} = 28 V, V _{EB} = 2.0 V | --- | 20 | µA |
| h _{FE1} | I _C = 360 mA dc, V _{CE} = 5.0 V | 5.0 | --- | --- |
| h _{FE2} | I _C = 50 mA dc, V _{CE} = 5.0 V | 10 | 200 | --- |

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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