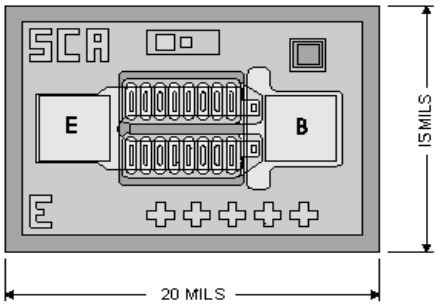
SEMICOA SEMICONDUCTORS

Data Sheet No. 2C3866A

Chip Type 2C3866A
Geometry 1007
Polarity NPN

Generic Packaged Parts:

2N3866, 2N3866A



Request Quotation

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
$T_A = 25^oC$

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%.