

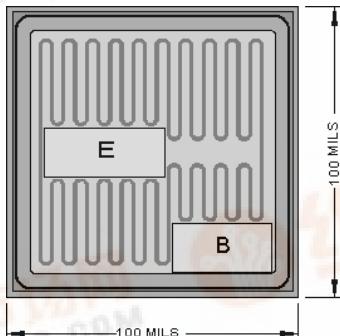


**Chip Type 2C5004
Geometry 9202
Polarity NPN**

Data Sheet No. 2C5004

Generic Packaged Parts:

2N5002, 2N5004



Request Quotation

Chip type **2C5004** by Semicoa Semiconductors provides performance similar to these devices.

Part Numbers:

[2N5002, 2N5004](#)

Product Summary:

APPLICATIONS: Designed for medium power amplifier and switching and wide band amplifier applications.

Features:

- Medium power ratings

Mechanical Specifications

Metallization	Top	Al - 37.5 kÅ min.
	Backside	Au - 6.5 kÅ nom.
Bonding Pad Size	Emitter	12 mils x 40 mils
	Base	12 mils x 30 mils
Die Thickness	8 mils nominal	
Chip Area	100 mils x 100 mils	
Top Surface	Siloc Passivated	

Electrical Characteristics

$T_A = 25^\circ C$

Parameter	Test conditions	Min	Max	Unit
BV_{CBO}	$I_C = 10 \text{ mA}, I_E = 0$	80	---	V dc
I_{CEO}	$V_{CE} = 40 \text{ Vc}, I_B = 0$	---	50	μA
I_{CES}	$V_{CE} = 100 \text{ Vc}, V_{BE} = 0$	---	1.0	mA
I_{EBO}	$V_{EB} = 5.5 \text{ Vc}, I_C = 0$	---	1.0	mA
h_{FE}	$I_C = 50 \text{ mA dc}, V_{CE} = 5.0 \text{ V}$	50	---	---

Due to limitations of probe testing, only dc parameters are tested. This must be done with pulse width less