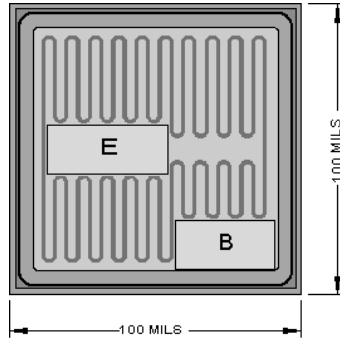


Chip Type 2C5004
Geometry 9202
Polarity NPN

Generic Packaged Parts:
2N5002, 2N5004



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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	Silox Passivated	

Electrical Characteristics				
$T_A = 25^\circ\text{C}$				
Parameter	Test conditions	Min	Max	Unit
BV_{CBO}	$I_C = 10\text{ mA}, I_E = 0$	80	---	V dc
I_{CEO}	$V_{CE} = 40\text{ V}, I_B = 0$	---	50	μA
I_{CES}	$V_{CE} = 100\text{ V}, V_{BE} = 0$	---	1.0	mA
I_{EBO}	$V_{EB} = 5.5\text{ V}, I_C = 0$	---	1.0	mA
η_{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 than 300 μs , duty cycle less than 2%.