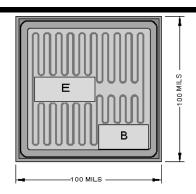




# Chip Type 2C5664 Geometry 9221 Polarity NPN

## **Generic Packaged Parts:**

2N5664, 2N5666



**Request Quotation** 

Chip type **2C5664** by Semicoa Semiconductors provides performance similar to these devices.

#### **Part Numbers:**

2N5664, 2N5666

### **Product Summary:**

**APPLICATIONS:** Designed for high voltage, high speed switching and power amplifier applications.

#### Features:

High voltage ratings

Mechanical Specifications					
Metallization	Тор	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						
$T_A = 25^{\circ}C$						
Parameter	Test conditions	Min	Max	Unit		
BV <sub>CER</sub>	$I_C = 10 \text{ mA}, R = 100 \text{ ohms}$	250		V dc		
$BV_{EBO}$	IE = 10 μA	6.0		μΑ		
I <sub>CES</sub>	$V_{CE} = 200 \text{ V}, I_{E} = 0$		0.2	μA		
h <sub>FE</sub>	$I_C = 500 \text{ mA dc}, V_{CE} = 2.0 \text{ V}$	50				
h <sub>FE</sub>	$I_C = 1.0 \text{ A dc}, V_{CE} = 5.0 \text{ V}$	25	75			

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%.