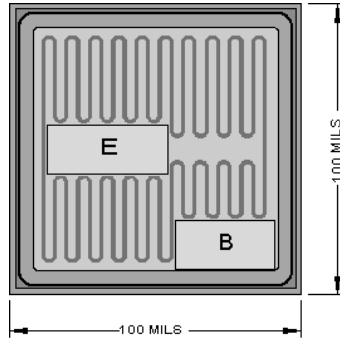


Chip Type 2C5664
Geometry 9221
Polarity NPN

Generic Packaged Parts:
2N5664, 2N5666



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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	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_{CER}	$I_C = 10 \text{ mA}$, $R = 100 \text{ ohms}$	250	---	V dc
BV_{EBO}	$I_E = 10 \mu\text{A}$	6.0	---	μA
I_{CES}	$V_{CE} = 200 \text{ V}$, $I_E = 0$	---	0.2	μA
h_{FE}	$I_C = 500 \text{ mA dc}$, $V_{CE} = 2.0 \text{ V}$	50	---	---
h_{FE}	$I_C = 1.0 \text{ A dc}$, $V_{CE} = 5.0 \text{ V}$	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%.