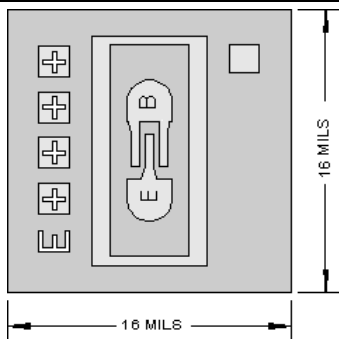


**Chip Type 2C918**  
**Geometry 0013**  
**Polarity NPN**

**Generic Packaged Parts:**  
**2N918**


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Chip type **2C918** by Semicoa Semiconductors provides performance similar to these devices.

#### Part Numbers:

[2N918](#), 2N918UB, SD918, SD918F, SQ918, SQ918F

#### Product Summary:

**APPLICATIONS:** Designed for high frequency oscillator, multiplier and driver applications.

#### Features:

- High frequency rating

### Mechanical Specifications

Metallization	Top	Al - 15 kÅ min.
	Backside	Au - 6.5 kÅ nom.
Bonding Pad Size	Emitter	2.7 mils x 2.7 mils
	Base	2.7 mils x 2.7 mils
Die Thickness	8 mils nominal	
Chip Area	16 mils x 16 mils	
Top Surface	Silox Passivated	

### Electrical Characteristics

 $T_A = 25^{\circ}\text{C}$ 

Parameter	Test conditions	Min	Max	Unit
$BV_{CEO}$	$I_C = 3.0 \text{ mA}$ , $I_B = 0$	15	---	V dc
$BV_{CBO}$	$I_C = 10 \text{ }\mu\text{A}$ , $I_E = 0$	30	---	V dc
$BV_{EBO}$	$I_E = 10 \text{ }\mu\text{A}$ , $I_C = 0$	3.0	---	V dc
$I_{CBO}$	$V_{CB} = 15 \text{ V}$ , $I_E = 0$	---	10	nA
$h_{FE}$	$I_C = 3.0 \text{ mA dc}$ , $V_{CE} = 1.0 \text{ V}$	20	---	---
$V_{CE(sat)}$	$I_C = 30 \text{ mA dc}$ , $I_B = 3.0 \text{ mA}$	---	0.3	V dc

*Due to limitations of probe testing, only dc parameters are tested. This must be done with pulse width less than 300  $\mu\text{s}$ , duty cycle less than 2%.*