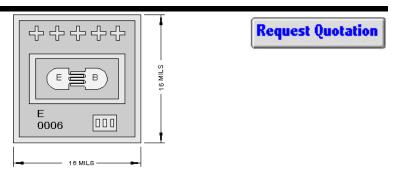


# Chip Type 2C4957 Geometry 0006 Polarity PNP

## **Generic Packaged Parts:**

2N4957, 2N4958, 2N4959



Chip type **2C4957** by Semicoa Semiconductors provides performance similar to these devices.

#### **Part Numbers:**

2N4957, 2N4957UB, 2N4958, 2N4958UB, 2N4959, 2N4959UB, SD4957, SD4957F, SO4957, SO4957F

### **Product Summary:**

#### **APPLICATIONS:**

Designed for high-gain, low-noise class A amplifiers, oscillators and mixers.

Features: Special Characteristics

ft = 1.6 GHz (typ) at 2.0 mA/10V

Radiation graphs available

Mechanical Specifications					
Metallization	Тор	Al - 12 kÅ min.			
	Backside	Au - 6.5 kÅ nom.			
Bonding Pad Size	Emitter	2.3 mils x 2.3 mils			
	Base	2.3 mils x 2.3 mils			
Die Thickness	8 mils nominal				
Chip Area	16 mils x 16 mils				
Top Surface	Silox Passivated				

Electrical Characteristics						
$T_A = 25^{\circ}C$						
Parameter	Test conditions	Min	Max	Unit		
BV <sub>CEO</sub>	$I_{\rm C} = 1.0  {\rm mA}$	30		V dc		
BV <sub>CBO</sub>	I <sub>C</sub> = 100 μA	30		V dc		
$BV_{EBO}$	I <sub>E</sub> = 100 μA	3.0		V dc		
I <sub>CBO</sub>	$V_{CB} = 10 \text{ V dc}$		0.1	μΑ		
h <sub>FE</sub>	$V_{CE} = 10 \text{ V}, I_{C} = 2.0 \text{ mA}$	20	150			

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%.