

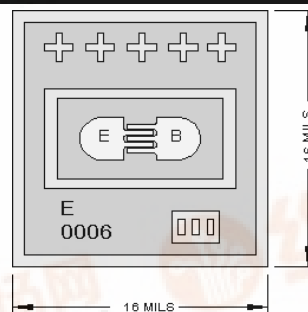


Data Sheet No. 2C4957

Chip Type 2C4957
Geometry 0006
Polarity PNP

Generic Packaged Parts:

2N4957, 2N4958, 2N4959



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

Part Numbers:

2N4957, 2N4957UB, 2N4958, 2N4958UB,
2N4959, 2N4959UB, SD4957, SD4957F,
SQ4957, SQ4957F

Product Summary:

APPLICATIONS:

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

Features: Special Characteristics

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

Radiation graphs available

Mechanical Specifications

Metallization	Top	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

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

Parameter	Test conditions	Min	Max	Unit
BV_{CEO}	$I_C = 1.0$ mA	30	---	V dc
BV_{CBO}	$I_C = 100$ μ A	30	---	V dc
BV_{EBO}	$I_E = 100$ μ A	3.0	---	V dc
I_{CBO}	$V_{CB} = 10$ V dc	---	0.1	μ A
I_{FE}	$V_{CE} = 10$ V, $I_C = 2.0$ mA	20	150	---

Due to limitations of probe testing, only dc parameters are tested. This must be done with pulse width less than 300 μ s, duty cycle less than 2%.

