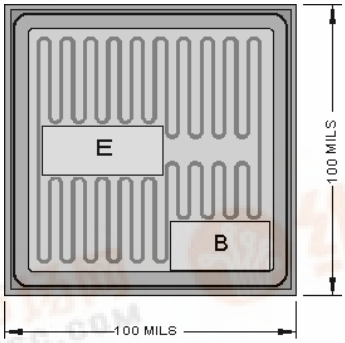
SEMICOA SEMICONDUCTORS

Data Sheet No. 2C5154

Chip Type 2C5154
Geometry 9201
Polarity NPN

Generic Packaged Parts:

2N4150, 2N51512, 2N5154, 2N5339



Request Quotation

Chip type **2C5154** by Semicoa Semiconductors provides performance similar to these devices.

Part Numbers:

2N3998, 2N3999, 2N4150, 2N4150S, 2N5152, 2N5152L, 2N5154, 2N5154L, 2N5339

Product Summary:

APPLICATIONS: Designed for medium power amplifier and switching and wide band amplifier applications.

Features:

- Medium power 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
$T_A = 25^oC$

Parameter	Test conditions	Min	Max	Unit
BV_{CBO}	I_C = 10 mA, I_E = 0	80	---	V dc
I_{CES}	V_{CE} = 60 V, I_E = 0	---	1.0	µA
I_{EBO}	V_{BE} = 4.0 V_C, I_C = 0	---	1.0	µA
h_{FE}	I_C = 50 mA dc, V_{CE} = 5.0 V	50	---	---
h_{FE}	I_C = 2.5 A dc, V_{CE} = 5.0 V	70-200	---	---

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