

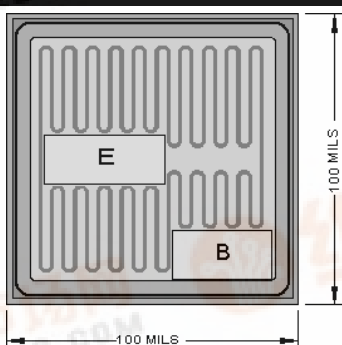


Data Sheet No. 2C5154

Chip Type 2C5154
Geometry 9201
Polarity NPN

Generic Packaged Parts:

**2N4150, 2N51512, 2N5154,
 2N5339**



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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

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

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

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%.

