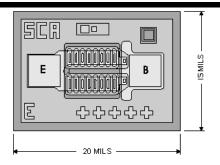


Chip Type 2C5109 Geometry 1007 Polarity NPN Data Sheet No. 2C5109

Generic Packaged Parts:

2N5109



Request Quotation

Chip type **2C5109** by Semicoa Semiconductors provides performance similar to these devices.

Part Numbers:

2N5109, 2N5109UB, SD5109, SD5109F, SQ5109, SQ5109F

Product Summary: APPLICATIONS:

Designed for broadband applications. Usable as high frequency current mode switch to 200 mA.

Features: Special Characteristics

ft = 1200 MHz (typ) at 50 mA/15V

Mechanical Specifications					
Metallization		Тор	Al - 15 kÅ min.		
		Backside		Au - 6.5 kÅ nom.	
Bonding Pad Size		Emitter	3.4 mils x 3.0 mils		
		Base		3.4 mils x 3.0 mils	
Die Thickness		8 mils nominal			
Chip Area		15 mils x 20 mils			
Top Surface		Silox Passivated			
	Ele	ectrical Char T _A =25		S	
Parameter	Test conditions		Min	Max	Unit
BV _{CER}	$I_{\rm C} = 5.0 {\rm mA}, {\rm R}_{\rm BE} = 10 {\rm Ohms}$		40		V dc
BV _{CEO}	I _C = 5.0 mA		20		V dc
I _{CEO}	$V_{CE} = 15 V dc$			20	μA
I _{EBO}	$V_{BE} = 3.0 \text{ V dc}$			100	μA
h _{FE1}	$I_{\rm C}$ = 360 mA, $V_{\rm CE}$ = 3.0 V dc		5.0		
h _{FE2}	$I_{\rm C} = 50$ mA, $V_{\rm CE} = 15$ V dc		40	120	

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%.