

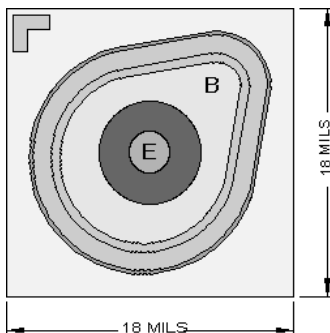


Data Sheet No. 2C2605

Chip Type 2C2605
Geometry 0220
Polarity NPN

Generic Packaged Parts:

2N2604, 2N2605, 2N3798,
2N3799, 2N3810, 2N3811

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Chip type **2C2605** by Semicoa Semiconductors provides performance similar to these devices.

Product Summary:

APPLICATIONS: Designed for high speed switching applications.

Part Numbers:

2N2604, [2N2605](#), 2N3789, 2N3799, [2N3810](#),
[2N3811](#)

Features:

- High speed switching capabilities

Mechanical Specifications

Metallization	Top	Al - 19.5 kÅ min.
	Backside	Au - 6.5 kÅ nom.
Bonding Pad Size	Emitter	3.6 mils diameter
	Base	2.5 mils diameter
Die Thickness	8 mils nominal	
Chip Area	18 mils x 18 mils	
Top Surface	Silox Passivated	

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

Parameter	Test conditions	Min	Max	Unit
BV_{CEO}	$I_C = 10.0\text{ A}$, $I_B = 0$	60	---	V dc
BV_{CBO}	$I_C = 10\text{ }\mu\text{A}$, $I_E = 0$	70	---	V dc
BV_{EBO}	$I_E = 10\text{ }\mu\text{A}$, $I_C = 0$	6.0	---	V dc
I_{CBO}	$V_{CB} = 60\text{ V}$, $I_E = 0$	---	10	nA
h_{FE}	$I_C = 500\text{ }\mu\text{A dc}$, $V_{CE} = 5.0\text{ V}$	150	450	---

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%.

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