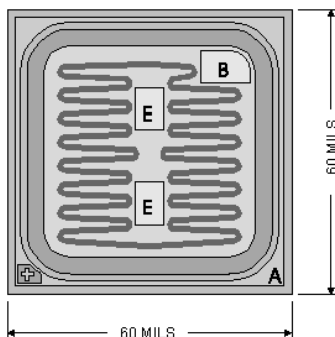


Chip Type 2C3506
Geometry 1506
Polarity NPN

Generic Packaged Parts:
2N3506, 2N3507


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Chip type **2C3506** by Semicoa Semiconductors provides performance similar to these devices.

Part Numbers:

2N3506, 2N3506L, 2N3507, 2N3507L

Product Summary:

APPLICATIONS: Designed for high current, high speed saturated switching and core driver applications.

Features:

High current and high speed capability

Mechanical Specifications

Metallization	Top	Al - 22 kÅ min.
	Backside	Au - 6.5 kÅ nom.
Bonding Pad Size	Emitter	9.0 mils x 6.0 mils
	Base	7.0 mils x 11.0 mils
Die Thickness	8 mils nominal	
Chip Area	60 mils x 60 mils	
Top Surface	Silox Passivated	

Electrical Characteristics

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

Parameter	Test conditions	Min	Max	Unit
BV_{CEO}	$I_C = 10 \text{ mA}, I_B = 0$	40	---	V dc
BV_{CBO}	$I_C = 100 \mu\text{A}, I_E = 0$	60	---	V dc
BV_{EBO}	$I_E = 10 \mu\text{A}, I_C = 0$	5.0	---	V dc
h_{FE}	$I_C = 500 \text{ mA dc}, V_{CE} = 1.0 \text{ V}$	50	---	---

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%.