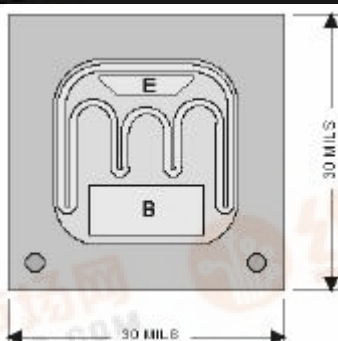




Data Sheet No. 2C1893

Chip Type 2C1893
Geometry 4500
Polarity NPN

Generic Packaged Parts:
2N1893, 2N1893S



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Chip type **2C1893** by Semicoa Semiconductors provides performance similar to these devices.

Part Numbers:

2N1893, 2N1893S, 2N1893UB, SD1893, SD1893F, SQ1893, SQ1893F

Product Summary:

APPLICATIONS: Designed for medium power amplifier and switching applications.

Features:

- Medium power ratings

Mechanical Specifications

Metallization	Top	Al - 12 kÅ min.
	Backside	Au - 6.5 kÅ nom.
Bonding Pad Size	Emitter	2.3 mils x 7.0 mils
	Base	5.0 mils x 11.0 mils
Die Thickness	8 mils nominal	
Chip Area	30 mils x 30 mils	
Top Surface	Silox Passivated	

Electrical Characteristics

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

Parameter	Test conditions	Min	Max	Unit
BV_{CBO}	$I_C = 100 \mu\text{A}$, $I_E = 0$	120	---	V dc
BV_{EBO}	$I_E = 100 \mu\text{A}$, $I_C = 0$	7.0	---	V dc
I_{CBO}	$V_{CB} = 60 \text{ V}$, $I_E = 0$	---	10	nA dc
β_{FE}	$I_C = 150 \text{ mA dc}$, $V_{CE} = 10 \text{ V}$	40	120	---

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%.

