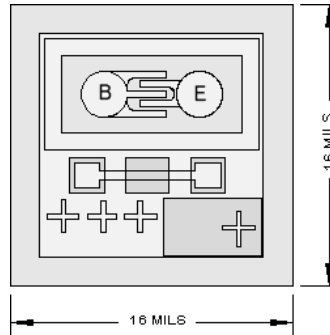


Chip Type 2C2857
Geometry 0011
Polarity NPN

Generic Packaged Part:
2N2857



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Chip type **2C2857** by Semicoa Semiconductors provides performance similar to these devices.

Product Summary:

APPLICATIONS: Designed for use in high-gain, low noise amplifier, oscillator, mixer and UHF converters.

Part Numbers:

2N2857, 2N2857UB, SD2857, SD2857F, SQ2857, SQ2857F

Features: $f_t = 1.2 \text{ GHz (typ) at } 5 \text{ mA/6V}$

Mechanical Specifications		
Metallization	Top	Al - 15 kÅ min.
	Backside	Au - 6.5 kÅ nom.
Bonding Pad Size	Emitter	2.3 mils x 2.3 mils
	Base	2.3 mils x 2.3 mils
Die Thickness	8 mils nominal	
Chip Area	16 mils x 16 mils	
Top Surface	Silox Passivated	

Electrical Characteristics				
$T_A = 25^\circ\text{C}$				
Parameter	Test conditions	Min	Max	Unit
BV_{CEO}	$I_C = 3.0 \text{ mA}$	15	---	V dc
BV_{CBO}	$I_C = 1.0 \mu\text{A}$	30	---	V dc
BV_{EBO}	$I_E = 10 \mu\text{A}$	2.5	---	V dc
I_{CBO}	$V_{CB} = 15 \text{ V}$	---	0.01	$\mu\text{A dc}$
h_{FE}	$I_C = 3.0 \text{ mA dc}, V_{CE} = 1.0 \text{ V}$	30	150	---

Due to limitations of probe testing, only dc parameters are tested. This must be done with pulse width of less than 300 μs , duty cycle less than 2%.

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