

UNISONIC TECHNOLOGIES CO., LTD

2SC5006

NPN EPITAXIAL SILICON TRANSISTOR

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DESCRIPTION

The UTC **2SC5006** is an NPN epitaxial transistor; it uses UTC's advanced technology to provide the customers with low noise figure, high DC current gain and high current capability achieve a very wide dynamic range and excellent linearity.

The UTC **2SC5006** is suitable for low noise and small signal amplifiers from VHF band to UHF band.

FEATURES

- * High DC current gain
- * High current capability
- * Low noise figure

3 2 3 50T-323 3 4 2 1 2 50T-523

ORDERING INFORMATION

Ordering Number		Deelvere	Pin	Assignr	Decking		
Lead Free	Halogen-Free	Раскаде	1	2	3	Packing	
2SC5006L-AL3-R	2SC5006G-AL3-R	SOT-323	В	Е	С	Tape Reel	
2SC5006L-AN3-R	2SC5006G-AN3-R	SOT-523	В	E	С	Tape Reel	

Note: Pin Assignment: B: Base E: Emitter C: Collector

(1)Packing Type (1) R: Tape I (2)Package Type (2) AL3: SOT (3)Green Package (3) G: Haloge	Reel I-323, AN3: SOT-523 en Free and Lead Free, L: Lead Free

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V _{CBO}	20	V
Collector-Emitter Voltage		V _{CEO}	12	V
Emitter-Base Voltage		V _{EBO}	3.0	V
Collector Current		Ιc	100	mA
Dewer Dissignation	SOT-323	PD	200	mW
Power Dissipation	SOT-523		125	mW
Junction Temperature		TJ	+150	С°
Storage Temperature		T _{STG}	-60 ~ +150	С°

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CBO}	V _{CB} =10V, I _E =0			1.0	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =1V, I _C =0			1.0	μA
DC Current Gain	h _{FE}	V _{CE} =3V, I _C =7mA (Note 1)	80		160	
Transition Frequency	f⊤	V _{CE} =3V, I _C =7mA, f=1GHz		4.5		GHz
Feedback Capacitance	Cre	V _{CB} =3V, I _E =0, f=1.0MHz (Note 2)		0.7		pF

Notes: 1. Pulse measurement $P_W \leq 350 \mu s$, duty cycle $\leq 2\%$.

2. The emitter terminal and the case shall be connected to the gurad terminal of the three-terminal capacitance bridge.



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 2SB1204S-TL-E
 2SC2712S-GR,LF
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