



2SC4226

Preliminary

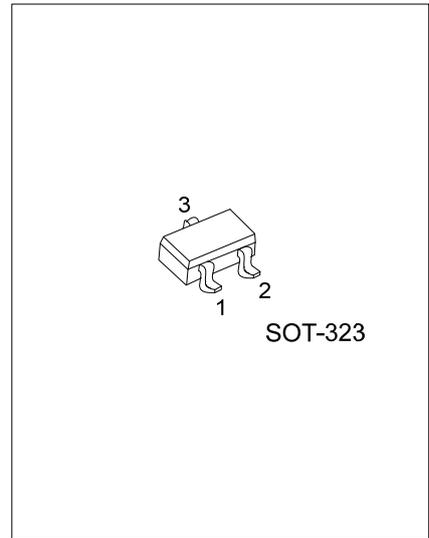
NPN SILICON TRANSISTOR

NPN SILICON EPITAXIAL TRANSISTOR

DESCRIPTION

The UTC **2SC4226** is a low supply voltage transistor designed for VHF, UHF low noise amplifier.

It is suitable for a high density surface mount assembly since the transistor has applied small mini mold package.



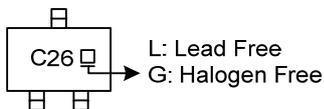
ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC4226L-xxx-AL3-R	2SC4226G-xxx-AL3-R	SOT-323	B	E	C	Tape Reel

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

<p>2SC4226G-xxx-AL3-R</p> <ul style="list-style-type: none"> (1)Packing Type (2)Package Type (3)Rank (4)Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel (2) AL3: SOT-323 (3) xxx: refer to Classification of h_{FE} (4) G: Halogen Free and Lead Free, L: Lead Free
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MARKING



■ ABSOLUTE MAXIMUM RATING ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	BV_{CBO}	20	V
Collector-emitter voltage	BV_{CEO}	12	V
Emitter-Base Voltage	BV_{EBO}	3	V
Collector Current	I_C	100	mA
Collector Dissipation	P_C	150	mW
Junction Temperature	T_J	+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-65 ~ +150	$^{\circ}\text{C}$

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 ($T_J=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CE}=1\text{V}, I_E=0$			1	μA
Emitter Cutoff Current	I_{EBO}	$V_{CE}=1\text{V}, I_C=0$			1	μA
DC Current Gain	h_{FE}	$V_{CE}=3\text{V}, I_C=7\text{mA}$	40		250	
Transition Frequency	f_T	$V_{CE}=3\text{V}, I_C=7\text{mA}$		4.5		GHz
Feedback Capacitance	C_{re}	$V_{CE}=3\text{V}, I_E=0, f=1\text{MHz}$		0.7		pF

Note: Pulsed: $P_W \leq 350\mu\text{s}$, Duty Cycle $\leq 2\%$.

■ CLASSIFICATION OF h_{FE}

RANK	R23	R24	R25
RANGE	40 ~ 80	70 ~ 140	125 ~ 250

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