

**2SC2734**

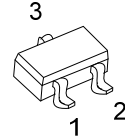
Preliminary

NPN EPITAXIAL SILICON TRANSISTOR**NPN EPITAXIAL TRANSISTOR****DESCRIPTION**

The UTC **2SC2734** is an NPN epitaxial transistor; it uses UTC's advanced technology to provide the customers with high DC current gain, etc.

FEATURES

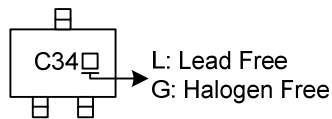
- * high DC current gain
- * UHF frequency converter

**SOT-23**
(JEDEC TO-236)**ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen-Free		1	2	3	
2SC2734L-AE3-R	2SC2734G-AE3-R	SOT-23	B	E	C	Tape Reel

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

2SC2734G-AE3-R	(1) Packing Type (2) Package Type (3) Green Package	(1) R: Tape Reel (2) AE3: SOT-23 (3) G: Halogen Free and Lead Free, L: Lead Free
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MARKING

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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	20	V
Collector-Emitter Voltage	V_{CEO}	11	V
Emitter-Base Voltage	V_{EBO}	3	V
Collector Current	I_C	50	mA
Collector Power Dissipation ($T_C=25^\circ\text{C}$)	P_C	150	mW
Junction Temperature	T_J	+150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +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** ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=10\mu\text{A}$, $I_E=0$	20			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1\text{mA}$, $R_{BE}=\infty$	11			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=10\mu\text{A}$, $I_C=0$	3			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=10\text{V}$, $I_C=0$			0.5	μA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10\text{mA}$, $I_B=5\text{mA}$			0.7	V
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}$, $I_C=5\text{mA}$	20		200	
Feedback Capacitance	C_{re}	$V_{CB}=10\text{V}$, $f=1\text{MHz}$, $I_E=0$		1		pF
Transition Frequency	f_T	$V_{CE}=10\text{V}$, $I_C=10\text{mA}$		3.5		GHz

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