2SC2734

**Preliminary** 

### NPN EPITAXIAL SILICON TRANSISTOR

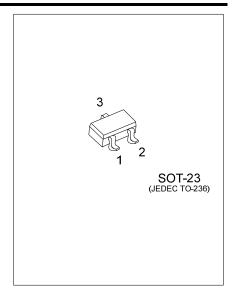
# NPN EPITAXIAL TRANSISTOR

#### ■ 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**

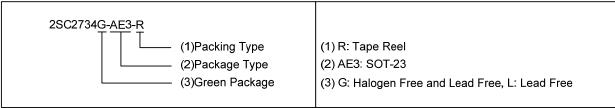
- \* high DC current gain
- \* UHF frequency converter



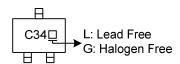
#### ORDERING INFORMATION

Ordering Number		Dookaga	Pin Assignment			Packing	
Lead Free	Halogen-Free	Package	1	2	3	Facking	
2SC2734L-AE3-R	2SC2734G-AE3-R	SOT-23	В	E	С	Tape Reel	

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



#### ■ MARKING



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### ■ **ABSOLUTE MAXIMUM RATINGS** (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	$V_{CBO}$	20	V	
Collector-Emitter Voltage	$V_{\sf CEO}$	11	V	
Emitter-Base Voltage	$V_{EBO}$	3	V	
Collector Current	Ic	50	mA	
Collector Power Dissipation (T <sub>C</sub> =25°C)	Pc	150	mW	
Junction Temperature	$T_J$	+150	°C	
Storage Temperature	$T_{STG}$	-55 ~ <b>+</b> 150	°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<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$BV_CBO$	I <sub>C</sub> =10uA, I <sub>E</sub> =0	20			V
Collector-Emitter Breakdown Voltage	$BV_CEO$	I <sub>C</sub> =1mA, R <sub>BE</sub> =∞	11			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	I <sub>E</sub> =10uA, I <sub>C</sub> =0	3			V
Collector Cut-Off Current	I <sub>CBO</sub>	$V_{CB}$ =10V, $I_{C}$ =0			0.5	μΑ
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I <sub>C</sub> =10mA, I <sub>B</sub> =5mA			0.7	V
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =5mA	20		200	
Feedback Capacitance	$C_{re}$	V <sub>CB</sub> =10V, f=1MHz, I <sub>E</sub> =0		1		pF
Transition Frequency	$f_{T}$	V <sub>CE</sub> =10V, I <sub>C</sub> =10mA		3.5		GHz

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