

UTC UNISONIC TECHNOLOGIES CO., LTD

## 2SC3834

### NPN SILICON TRANSISTOR

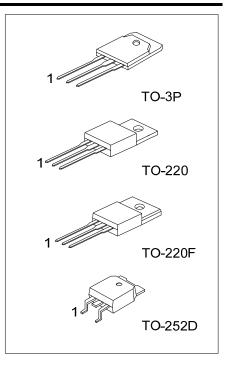
## SWITCH NPN TRANSISTOR

#### DESCRIPTION

The UTC 2SC3834 is an epitaxial planar type NPN silicon transistor.

#### **FEATURES**

\* Humidifier, DC-DC converter, and general purpose



#### **ORDERING INFORMATION**

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free Plating	Halogen Free	Package	1	2	3	Packing	
2SC3834L-TA3-T	2SC3834G-TA3-T	TO-220	В	С	Е	Tube	
2SC3834L-TF3-T	2SC3834G-TF3-T	TO-220F	В	С	Е	Tube	
2SC3834L-TND-R	2SC3834G-TND-R	TO-252D	В	С	Е	Tape Reel	
2SC3834L-T3P-T	2SC3834G-T3P-T	TO-3P	В	С	Е	Tube	
Note: Pin Assignment: B: Base C: Collector E: Emitter							
2SC3834G-TA3-T (1)Packing Type   (2)Package Type (2)Package Type   (3)Green Package (3)Green Package							

#### MARKING



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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V <sub>CBO</sub>	200	V
Collector-emitter voltage		V <sub>CEO</sub>	120	V
Emitter-Base Voltage		V <sub>EBO</sub>	8	V
Collector Current (Pulse)		lc	7	A
Base Current		Ι <sub>Β</sub>	3	A
Collector Dissipation (T <sub>C</sub> =25°C)	TO-220	Pc	60	W
	TO-220F		27	W
	TO-252D		30	W
	TO-3P		65	W
Inction Temperature		TJ	+150	°C
Storage Temperature		T <sub>STG</sub>	-55 ~ +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.

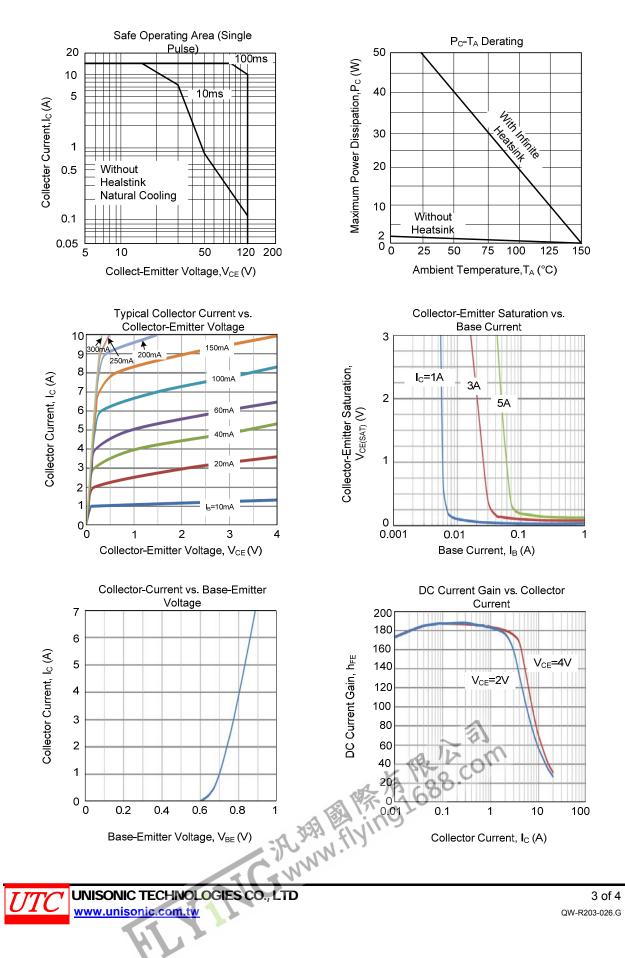
#### ■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = 50mA	120			V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =200V, I <sub>E</sub> =0A			100	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =8V, I <sub>C</sub> =0A			100	μA
DC Current Gain (Note)	h <sub>FE</sub>	V <sub>CE</sub> =4V, I <sub>C</sub> =3A	70		220	
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>	I <sub>C</sub> =3A, I <sub>B</sub> =0.3A			0.5	V
Base-Emitter Saturation Voltage	V <sub>BE(SAT)</sub>	I <sub>C</sub> =3A, I <sub>B</sub> =0.3A			1.2	V
Current Gain Bandwidth Product	f⊤	I <sub>E</sub> =-0.5mA, V <sub>CE</sub> =12V, f=100MHz		30		MHz
Output Capacitance	С	V <sub>CB</sub> =10 V, I <sub>E</sub> =0A, f=1MHz		110		pF



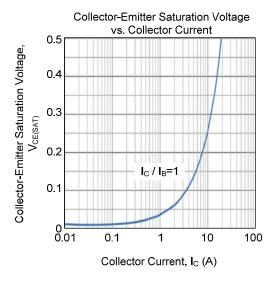
## 2SC3834

### TYPICAL CHARACTERISTICS



# 2SC3834

### TYPICAL CHARACTERISTICS



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