UNISONIC TECHNOLOGIES CO., LTD

2SC3834

NPN SILICON TRANSISTOR

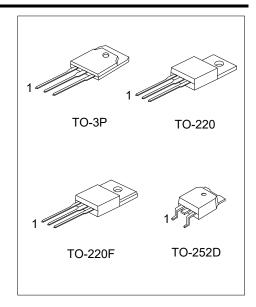
SWITCH NPN TRANSISTOR

DESCRIPTION

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

FEATURES

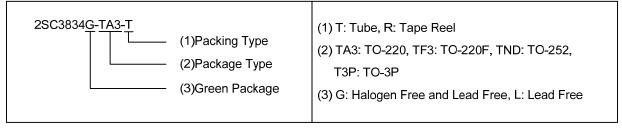
* Humidifier, DC-DC converter, and general purpose



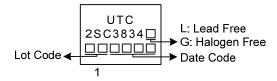
ORDERING INFORMATION

Ordering Number		Dealer	Pin Assignment			Dlin-	
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



MARKING



www.unisonic.com.tw 1 of 4 QW-R203-026.H

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

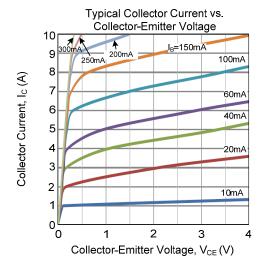
PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V _{CBO}	200	V
Collector-emitter voltage		V _{CEO}	120	V
Emitter-Base Voltage		V _{EBO}	8	V
Collector Current (Pulse)		lc	7	Α
Base Current		Ι _Β	3	Α
	TO-220		60	W
Collector Dissipation (Tc=25°C)	TO-220F		27	W
	TO-252D	Pc	30	W
	TO-3P		65	W
Junction Temperature		TJ	+150	°C
Storage Temperature		T _{STG}	-55 ~ +150	°C

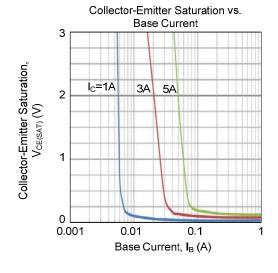
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

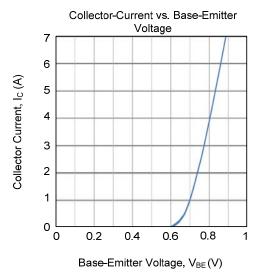
■ ELECTRICAL CHARACTERISTICS (T_A = 25°C, unless otherwise specified)

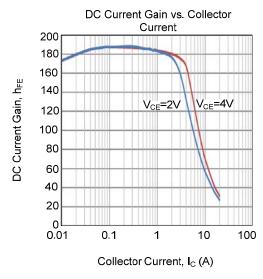
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = 50mA	120			V
Collector Cutoff Current	Ісво	V _{CB} =200V, I _E =0A			100	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =8V, I _C =0A			100	μΑ
DC Current Gain (Note)	h _{FE}	V _{CE} =4V, I _C =3A	70		220	
Collector-Emitter Saturation Voltage	V _{CE} (SAT)	I _C =3A, I _B =0.3A			0.5	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =3A, I _B =0.3A			1.2	V
Current Gain Bandwidth Product	f⊤	I _E =-0.5mA, V _{CE} =12V, f=100MHz		30		MHz
Output Capacitance	С	V _{CB} =10 V, I _E =0A, f=1MHz		110		pF

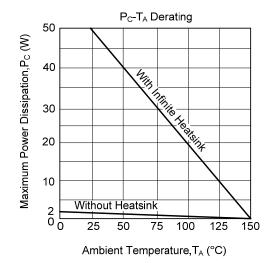
■ TYPICAL CHARACTERISTICS

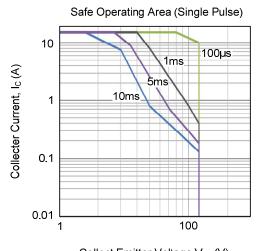




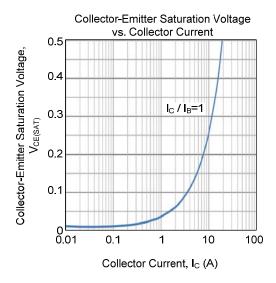








■ TYPICAL CHARACTERISTICS



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