UNISONIC TECHNOLOGIES CO., LTD

2SA684

PNP SILICON TRANSISTOR

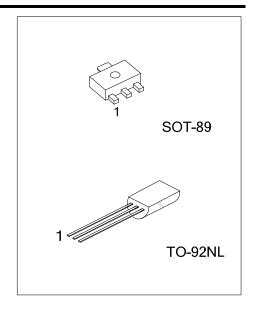
PNP SILICON TRANSISTOR

DESCRIPTION

The UTC 2SA684 is power amplifier and driver.

FEATURES

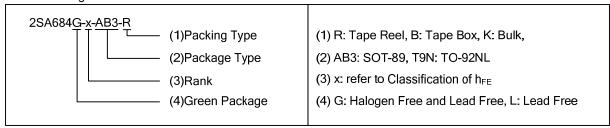
- * Automatic insertion by radial taping possible.
- * Complementary pair with 2SC1384.



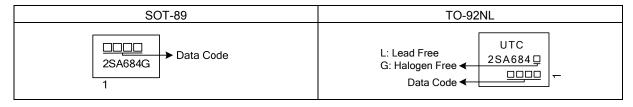
ORDERING INFORMATION

Ordering	Number	Doolsono	Pin Assignment			Daaldaa	
Lead Free	Halogen Free	Package	1	2	3	Packing	
-	2SA684G-x-AB3-R	SOT-89	В	С	E	Tape Reel	
2SA684L-x-T9N-B	2SA684G-x-T9N-B	TO-92NL	Е	С	В	Tape Box	
2SA684L-x-T9N-K	2SA684G-x-T9N-K	TO-92NL	Е	С	В	Bulk	

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



MARKING



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■ **ABSOLUTE MAXIMUM RATINGS** (T_A=25°C, unless otherwise noted)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-60	V
Collector-Emitter Voltage		V_{CEO}	-50	V
Emitter-Base Voltage		V_{EBO}	-5	V
Peak Collector Current		I _{CP}	-1.5	Α
Collector Current (DC)		Ic	-1	Α
Callantar Dissipation	SOT-89	0	500	mW
Collector Dissipation	TO-92NL	Pc	1000	mW
Junction Temperature		T_J	+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.

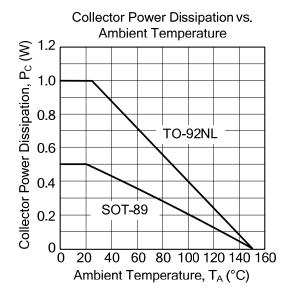
■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise noted)

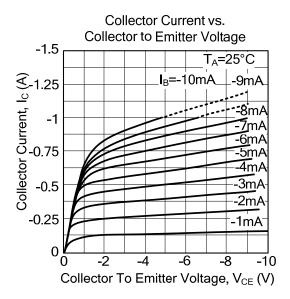
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-10μA, I _E =0	-60			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-2mA, I _B =0	-50			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =-10μA, I _C =0	-5			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-20V, I _E =0			-0.1	μA
DO Comment Online	h _{FE1}	V _{CE} =-10V, I _C =-500mA	85		340	
DC Current Gain	h _{FE2}	V _{CE} =-5V, I _C =-1A	50			
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-0.5A, I _B =-50mA		-0.2	-0.4	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =-0.5A, I _B =-50mA		-0.85	-1.2	V
Current Gain Bandwidth Product	f_T	V _{CE} =-10V, I _B =50mA, f=200MHz	•	200		MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	•	20	30	pF

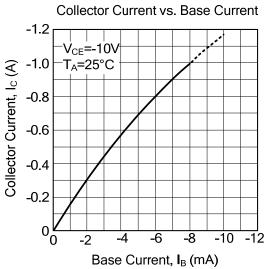
■ CLASSIFICATION OF h_{FE}

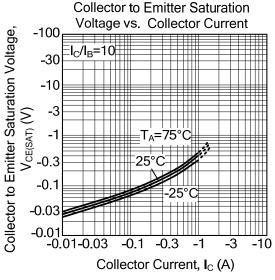
RANK	Q	R	S
RANGE	85-170	120-240	170-340

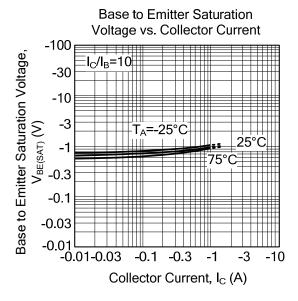
■ TYPICAL CHARACTERISTICS

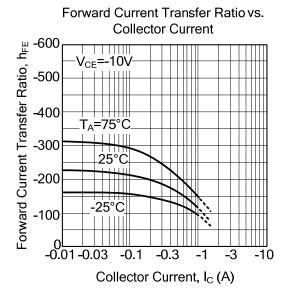




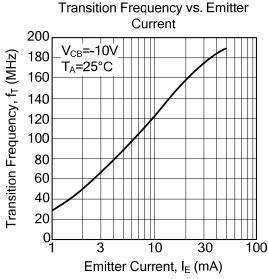


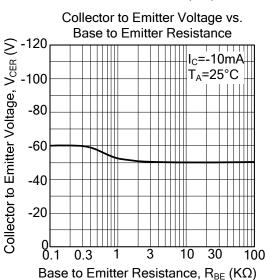


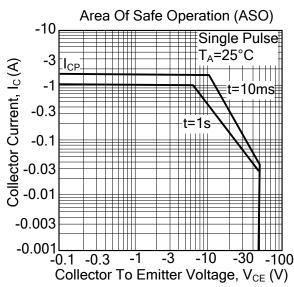


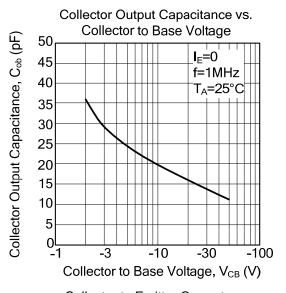


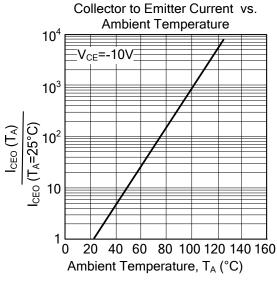
■ TYPICAL CHARACTERISTICS(Cont.)











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