

UTC2SA684 PNP EPITAXIAL PLANAR TRANSISTOR

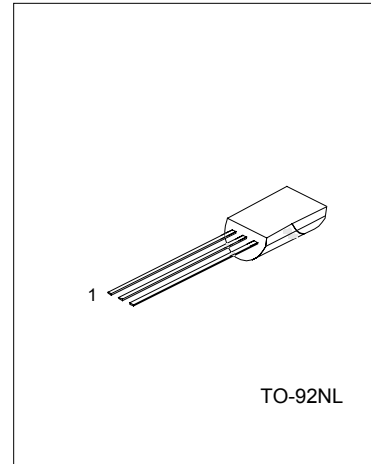
PNP EPITAXIAL PLANAR TRANSISTOR

DESCRIPTION

The UTC 2SA684 is power amplifier and driver.

FEATURES

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



1:EMITTER 2:COLLECTOR 3:BASE

ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	VCBO	-60	V
Collector-Emitter Voltage	VCEO	-50	V
Emitter-Base Voltage	VEBO	-5	V
Peak Collector Current	Icp	-1.5	A
Collector Current(DC)	Ic	-1	A
Collector Dissipation(Ta=25°C)	Pc	1	W
Junction Temperature	Tj	150	°C
Storage Temperature	TSTG	-55 ~ +150	°C

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

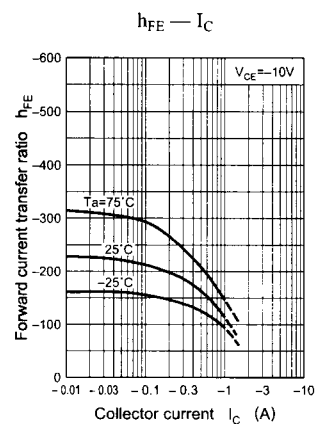
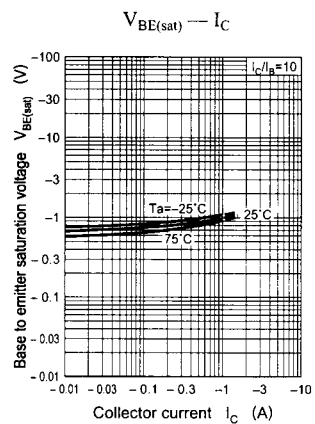
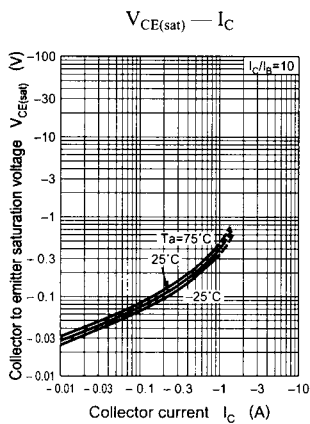
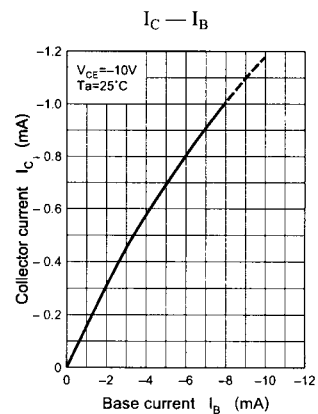
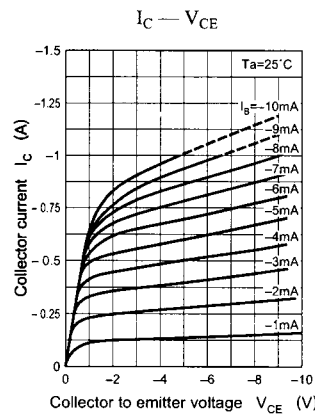
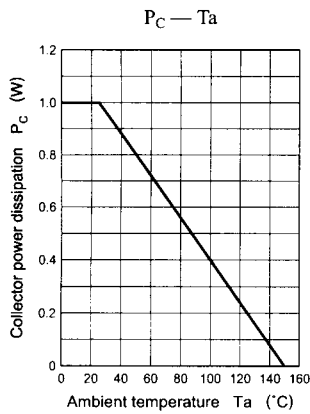
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	ICBO	V _{CB} =-20V, I _E =0			-0.1	μA
Collector-Base Voltage	VCBO	I _c =-10μA, I _E =0	-60			V
Collector-Emitter Voltage	VCEO	I _c =-2mA, I _B =0	-50			V
Emitter-Base Voltage	VEBO	I _E =-10μA, I _c =0	-5			V
DC Current Gain	hFE1 hFE2	V _{CE} =-10V, I _c =-500mA V _{CE} =-5V, I _c =-1A	85 50		340	
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

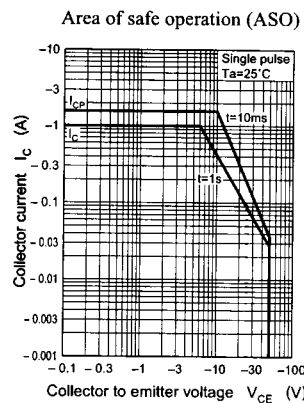
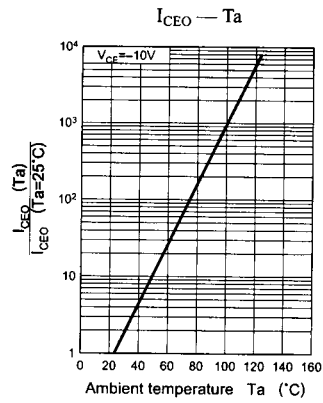
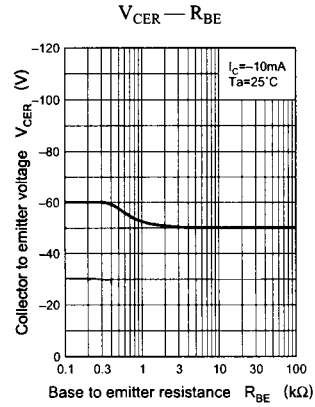
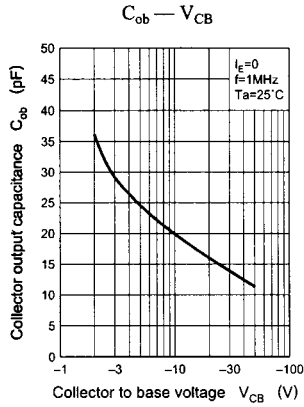
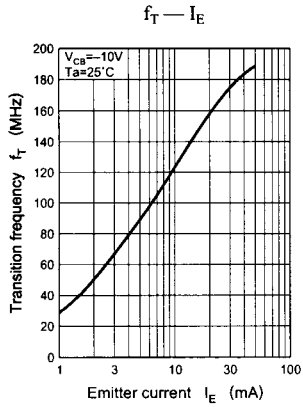
UTC2SA684 PNP EPITAXIAL PLANAR TRANSISTOR

CLASSIFICATION OF hFE

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

TYPICAL PERFORMANCE CHARACTERISTICS





UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.