

# UTC2SA684 PNP EPITAXIAL PLANAR TRANSISTOR

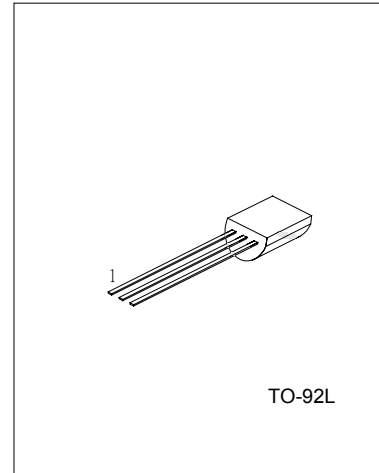
## PNP EPITAXIAL PLANAR TRANSISTOR

### DESCRIPTION

The UTC 2SA684 is power amplifier and driver.

### FEATURES

- \*Automatic insertion by radial tapering 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	VCB=20V, IE=0			0.1	μA
Collector-Base Voltage	VCBO	Ic=10μA, IE=0	60			V
Collector-Emitter Voltage	VCEO	Ic=2mA, IB=0	50			V
Emitter-Base Voltage	VEBO	IE=10μA, Ic=0	5			V
DC Current Gain	hFE1	VCE=10V, Ic=500mA	85		340	
	hFE2	VCE=5V, IB=1A	50			
Collector-Emitter Saturation Voltage	VCE(sat)	Ic=0.5A, IB=50mA		0.2	0.4	V
Base-Emitter Saturation Voltage	VBE(sat)	Ic=0.5A, IB=50mA		0.85	1.2	V
Current Gain Bandwidth Product	ft	VCE=10V, IB=50mA, f=200MHz		200		MHz
Output Capacitance	Cob	VCB=10V, IE=0, f=1MHz		20	30	pF

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## CLASSIFICATION OF hFE

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

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