UTC 2SC 1384 NPN EPITAXIAL PLANAR TRANSISTOR

NPN EPITAXIAL PLANAR **TRANSISTOR**

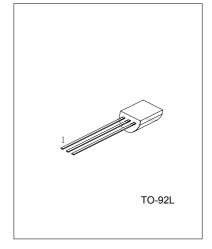
DESCRIPTION

The UTC 2SC1384 is power amplifier and driver.

FEATURES

*Low VcE(sat)

*2~3W output in complementary pair with 2SA684



1:EMITTER 2:COLLECTOR 3:BASE

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

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

Remark: Patting type:Pj=750mW

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

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	Ісво	Vcb=20V,IE=0			0.1	μА
Collector-Base Voltage	Vсво	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	160	340	
	hFE2	Vce=5V,IB=1A	50	100		
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	f⊤	Vce=10V,IB=50mA		200		MHz
Output Capacitance	Cob	Vcb=10V,IE=0,f=1MHz		11	20	pF

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CLASSIFICATION OF hFE

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

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