#### UTCTIP41C NPNEPITAXIAL PLANAR TRANSISTOR

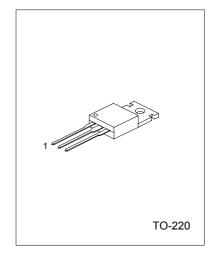
# NPN EXPITAXIAL PLANAR **TRANSISTOR**

#### **DESCRIPTION**

The UTC TIP41C is a NPN expitaxial planar transistor, designed for using in general purpose amplifier and switching

### **FEATURE**

\*Complement to tip42C



1:BASE 2:COLLECTOR 3:EMITTER

### ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT	
Collector Base Voltage	Vсво	100	V	
Collector to Emitter Voltage	VCEO	100	V	
Emitter-Base Voltage	VEBO	5	V	
Collector Current(DC)	Ic	6	Α	
Collector Current(Pulse)	Ic	10	Α	
Base Current	IB	2	Α	
Collector Dissipation(Tc=25°C)	Pc	65	W	
Collector Dissipation(Ta=25°C)	Pc	2	W	
Junction Temperature	Tj	150	°C	
Storage Temperature	Tstg	-65 ~ <b>+</b> 150	°C	

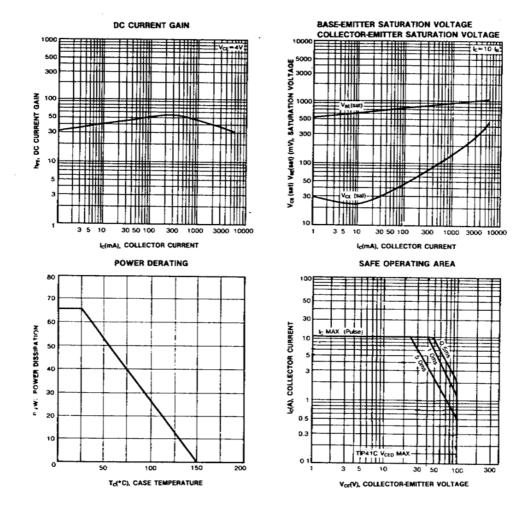
## ELECTRICAL CHARACTERISTICS(Tc=25°C)

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining voltage(*)	BVCEO	IC=30mA,IB=0	100			V
Collector cutoff Current	ICEO	VCE=60V,IB=0			0.7	mA
Collector Cutoff Current	ICES	VCE=100V,VEB=0			400	μА
Emitter Cutoff current	IEBO	VBE=5V,Ic=0			1	mA
Collector-Emitter Saturation Voltage(*)	Vce(sat)	IC=6A,IB=600mA			1.5	V
Base-Emitter On Voltage(*)	VBE(on)	IC=6A,VCE=4V			2.0	V
DC Current Gain(*)	hFE	IC=300mA,VCE=4V	30			
		IC=3A,VCE=4V	15		75	
Current gain Bandwidth Product	fT	VCE=10V,Ic=500mA,	3			MHz
		f=1MHz				

<sup>\*</sup>Pulse Test: PW<=300µs, Duty Cycle<=2%



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