PNPEPITAXIAL PLANAR TRANSISTOR UTCTIP42C

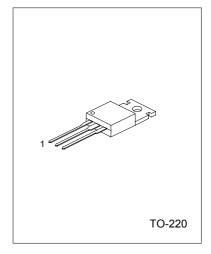
PNP EPITAXIAL PLANAR **TRANSISTOR**

DESCRIPTION

The UTC TIP42C is a PNP epitaxial planar transistor, designed for using in general purpose amplifier and switching applications.

FEATURE

*Complement to tip41C



1:BASE 2:COLLECTOR 3:EMITTER

ABSOLUTE MAXIMUM RATINGS

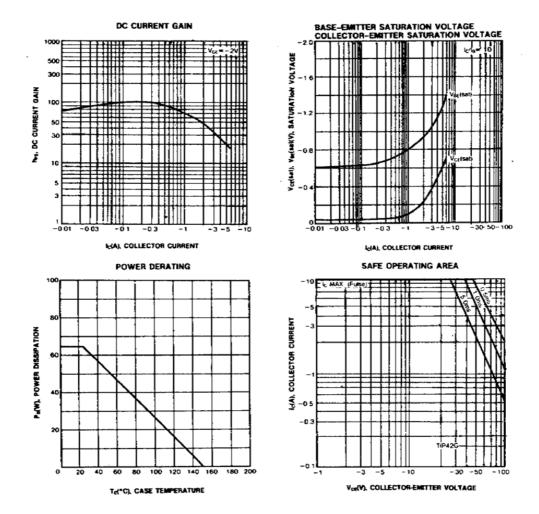
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PARAMETER	SYMBOL	VALUE	UNIT	
Collector Base Voltage	Vсво	-100	V	
Collector to Emitter Voltage	VCEO	-100	V	
Emitter-Base Voltage	VEBO	-5	V	
Collector Current(DC)	Ic	-6	Α	
Collector Current(Pulse)	lc	-10	Α	
Base Current	lв	-2	Α	
Collector Dissipation(Tc=25°C)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

ELECTRICAL CHARACTERISTICS(Tc=25°C)

		: /				
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	μΑ
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				

^{*}Pulse Test: PW<=300 μ s, Duty Cycle<=2%

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