



TIP32C

PNP EPITAXIAL SILICON TRANSISTOR

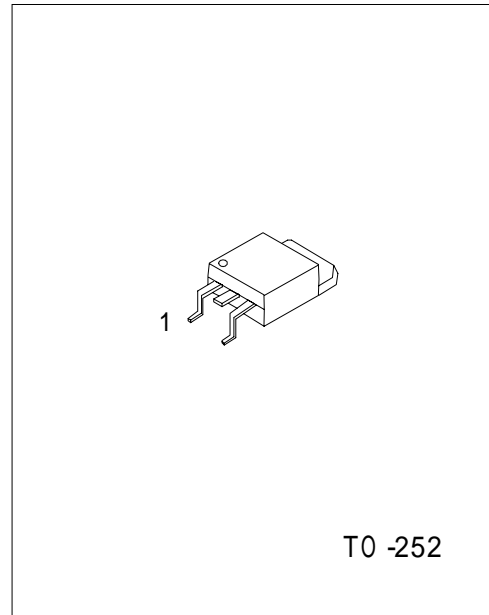
PNP EXPITAXIAL PLANAR TRANSISTOR

■ DESCRIPTION

The UTC TIP32C is a PNP epitaxial planar transistor, designed for using in general purpose amplifier and switching applications.

■ FEATURES

*Complement to TIP31C



*Pb-free plating product number: TIP32CL

■ PIN CONFIGURATION

PIN NO.	PIN NAME
1	BASE
2	COLLECTOR
3	EMITTER

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead free		
TIP32C-TN3-R	TIP32CL-TN3-R	TO-252	Tape Reel
TIP32C-TN3-T	TIP32CL-TN3-T	TO-252	Tube

■ ABSOLUTE MAXIMUM RATINGS ($T_a = 25$)

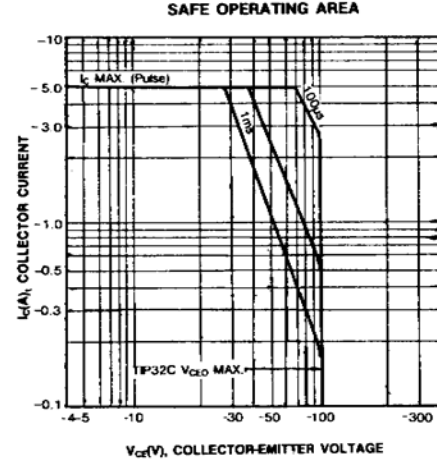
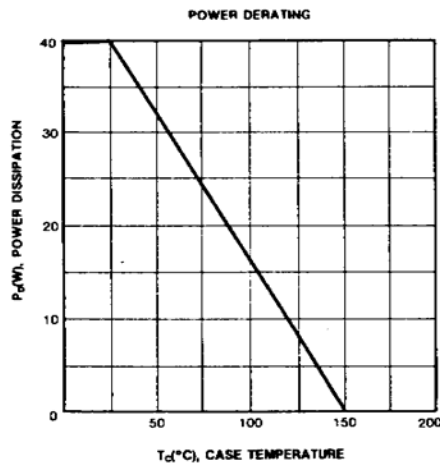
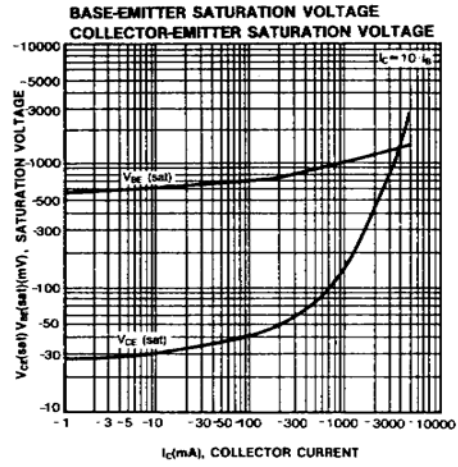
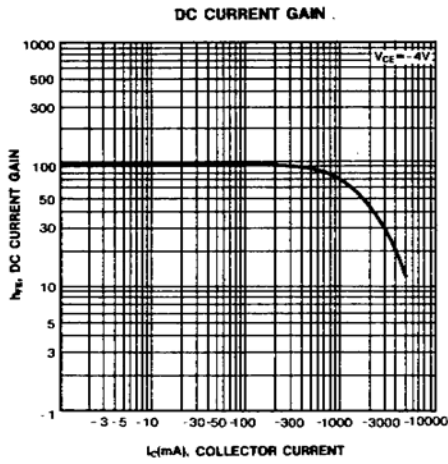
PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	V_{CBO}	-100	V	
Emitter-Base Voltage	V_{EBO}	-5	V	
Collector Current	DC	I_C	-3	A
	PULSE	I_{CM}	-5	A
Base Current	I_B	-1	A	
Power Dissipation	$T_C=25$	P_D	40	W
	$T_a=25$		2	W
Junction Temperature	T_J	+150		
Storage Temperature	T_{STG}	-40 ~ +150		

■ ELECTRICAL CHARACTERISTICS ($T_a = 25$, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage*	BV_{CEO}	$I_C=-30mA, I_B=0$	-100			V
Collector Cutoff Current	I_{CES}	$V_{CE}=-100V, V_{BE}=0$			-200	μA
Collector Cutoff Current	I_{CEO}	$V_{CE}=-60V, I_B=0$			-0.3	mA
Emitter Cutoff current	I_{EBO}	$V_{BE}=-5V, I_C=0$			-1	mA
Collector-Emitter Saturation Voltage*	$V_{CE(sat)}$	$I_C=-3A, I_B=-375mA$			-1.2	V
Base-Emitter On Voltage*	$V_{BE(on)}$	$I_C=-3A, V_{CE}=-4A$			-1.8	V
DC Current Gain*	h_{FE}	$I_C=-1A, V_{CE}=-4V$	25			
		$I_C=-3A, V_{CE}=-4V$	10		50	
Current Gain Bandwidth Product	f_T	$I_C=-0.5A, V_{CE}=-10V, f=1MHz$	3			MHz

*Pulse Test: $PW \leq 300\mu s$, Duty Cycle $\leq 2\%$

TYPICAL CHARACTERISTICS



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