

UTC UNISONIC TECHNOLOGIES CO., LTD

TIP42C

PNP PLANAR TRANSISTOR

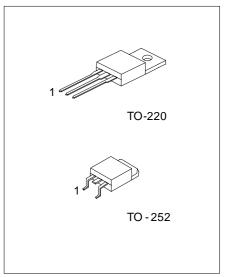
PNP EPITAXIAL PLANAR **TRANSISTOR**

DESCRIPTION

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

FEATURES

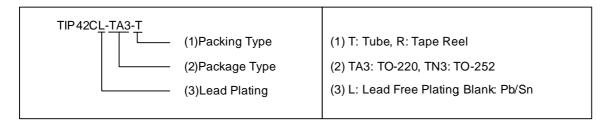
* Complement to TIP41C



*Pb-free plating product number: TIP42CL

ORDERING INFORMATION

Order Number		Doolsogo	Pin Assignment			Dooking	
Normal	Lead Free Plating	Package	1	2	3	Packing	
TIP42C-TA3-T	TIP42CL-TA3-T	TO-220	В	С	Е	Tube	
TIP42C-TN3-R	TIP42CL-TN3-R	TO-252	В	С	Е	Tape Reel	
TIP42C-TN3-T	TIP42CL-TN3-T	TO-252	В	С	Е	Tube	



www.unisonic.com.tw 1 of 3 QW-R203-007.B

■ ABSOLUTE MAXIMUM RATING

PARAMETER		SYMBOL	RATINGS	UNIT
Collector Base Voltage		V_{CBO}	-100	V
Collector to Emitter Voltage		V_{CEO}	-100	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current (DC)		Ic	-6	Α
Collector Current (Pulse)		Ic	-10	Α
Base Current		I _B	-2	Α
Collector Dissipation (Tc=25)	TO-220	ם	65	W
Collector Dissipation (1C=25)	TO-252	P _C	20	W
Junction Temperature	_	T_J	+150	
Storage Temperature	_	T _{STG}	-65 ~ + 150	

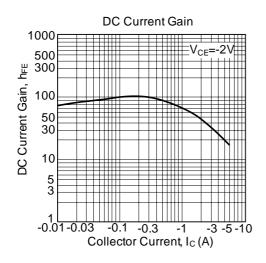
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

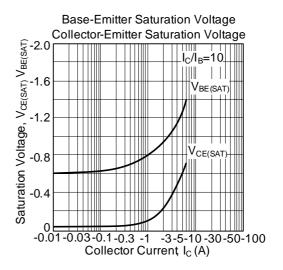
■ ELECTRICAL CHARACTERISTICS (Tc=25)

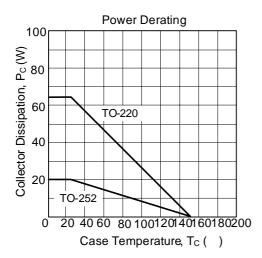
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage (*)	BV_{CEO}	I _C =-30mA, I _B =0	-100			V
Collector Cutoff Current	I _{CEO}	V _{CE} =-60V, I _B =0			-0.7	mA
Collector Cutoff Current	I _{CES}	V _{CE} =-100V, V _{EB} =0			-400	μΑ
Emitter Cutoff Current	I _{EBO}	V_{BE} =-5V, I_{C} =0			-1	mA
Collector-Emitter Saturation Voltage (*)	V _{CE(SAT)}	I _C =-6A, I _B =-600mA			-1.5	V
Base-Emitter on Voltage (*)	$V_{BE(ON)}$	I _C =-6A, V _{CE} =-4V			-2.0	V
DC Current Coin /*\		I _C =-300mA, V _{CE} =-4V	30			
DC Current Gain (*)		$I_C=-3A$, $V_{CE}=-4V$	15		75	
Current Gain Bandwidth Product	f⊤	V _{CE} =-10V, I _C =-500mA, f=1MHz	3			MHz

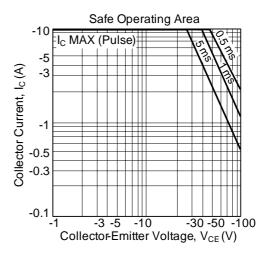
^{*} Pulse Test: PW 300μs, Duty Cycle 2%

■ TYPICAL CHARACTERISTICS









UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.