UNISONIC TECHNOLOGIES CO., LTD

TIP41C

NPN PLANAR TRANSISTOR

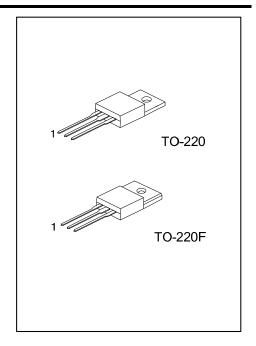
NPN EXPITAXIAL PLANAR TRANSISTOR

DESCRIPTION

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

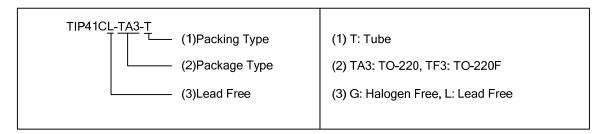
FEATURE

* Complement to TIP42C



ORDERING INFORMATION

Ordering Number		Dagkara	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TIP41CL-TA3-T	TIP41CG-TA3-T	TO-220	В	С	Е	Tube	
TIP41CL-TF3-T	TIP41CG-TF3-T	TO-220F	В	С	E	Tube	



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■ **ABSOLUTE MAXIMUM RATINGS** (T_C=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATING	UNIT		
Collector Base Voltage		V_{CBO}	100	V		
Collector to Emitter Voltage		$V_{\sf CEO}$	100	V		
Emitter-Base Voltage		V_{EBO}	5	V		
Collector Current		DC		6	Α	
		Pulse	Ic	10	Α	
Base Current		I _B	2	Α		
	T 0500	TO-220		65	10/	
	TO-220F	Б.	22	W		
	T _A =25°C	TO-220	P _C	2	W	
		TO-220F		0.7		
Junction Temperature		T_J	150	°C		
Storage Temperature		T_{STG}	-65 ~ +150	°C		

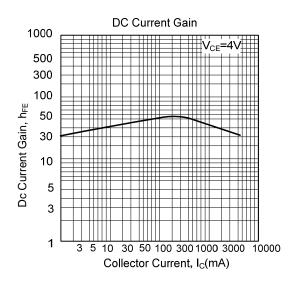
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

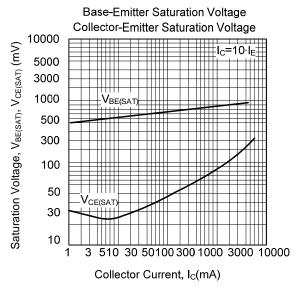
■ ELECTRICAL CHARACTERISTICS (T_C=25°C)

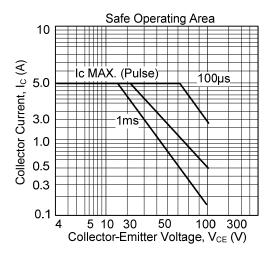
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage (Note)	V_{CEO}	I _C =30mA, I _B =0	100			V
Collector Cutoff Current	I _{CEO}	$V_{CE}=60V$, $I_{B}=0$			0.7	mΑ
Collector Cutoff Current	I _{CES}	V _{CE} =100V, V _{EB} =0			400	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			1	mΑ
Collector-Emitter Saturation Voltage (Note)	V _{CE(SAT)}	I _C =6A, I _B =600mA			1.5	V
Base-Emitter On Voltage (Note)	$V_{BE(ON)}$	I _C =6A, V _{CE} =4V			2.0	V
DC Current Gain (Note)	h _{FE1}	I _C =300mA, V _{CE} =4V	30			
DC Current Gain (Note)	h _{FE2}	$I_C=3A$, $V_{CE}=4V$	15		75	
Current Gain Bandwidth Product	f _T	V _{CE} =10V, I _C =500mA, f=1MHz	3			MHz

Note: Pulse Test: $P_W \le 300 \mu s$, Duty Cycle $\le 2\%$

TYPICAL CHARACTERISTICS







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