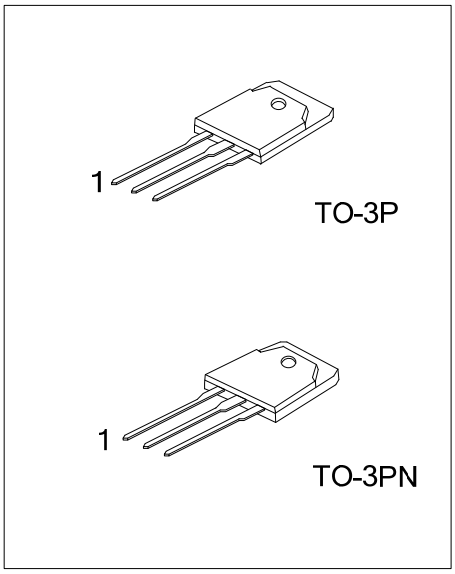
TIP36C

PNP SILICON TRANSISTOR

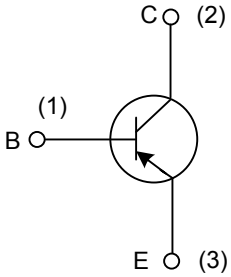
HIGH POWER TRANSISTORS



■ DESCRIPTION

The UTC **TIP36C** is a PNP Expitaxial-Base transistor, designed for using in general purpose amplifier and switching applications. Complement to TIP35C.

■ INTERNAL SCHEMATIC DIAGRAM



■ ORDERING INFORMATION

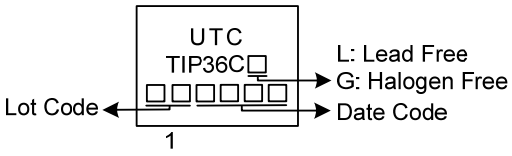
Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
TIP36CL-x-T3P-T	TIP36CG-x-T3P-T	TO-3P	B	C	E	Tube
TIP36CL-x-T3N-T	TIP36CG-x-T3N-T	TO-3PN	B	C	E	Tube

TIP36CG-x-T3P-T

(1)Packing Type
(2)Package Type
(3)Rank
(4)Green Package

(1) T: Tube
(2) T3P: TO-3P, T3N: TO-3PN
(3) refer to Classification of h_{FE1}
(4) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage (I_E = 0)	V_{CBO}	-100	V
Collector-Emitter Voltage (I_B = 0)	V_{CEO}	-100	V
Emitter-Base Voltage (I_C = 0)	V_{EBO}	-5	V
Collector Current	I_C	-25	A
Collector Peak Current	I_{CM}	-50	A
Base Current	I_B	-5	A
Total Dissipation (T_C =25°C)	P_D	125	W
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.

■ THERMAL DATA

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Thermal Resistance Junction-Case	θ_{JC}			1	°C/W

■ ELECTRICAL CHARACTERISTICS (T_C=25°C, unless otherwise specified)

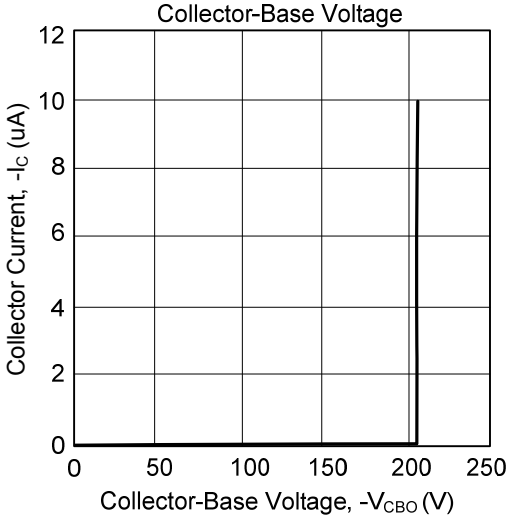
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current (I_E = 0)	I_{CBO}	V_{CB} = -100 V			-10	μA
Emitter Cut-off Current (I_C = 0)	I_{EBO}	V_{EB} = -5 V			-10	μA
Collector-Emitter Sustaining Voltage (I_B = 0)	$V_{(BR)CEO}$	I_C = -50 mA	-100			V
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	I_B = -1.5 A, I_C = -15 A			-1.8	V
		I_B = -5 A, I_C = -25 A			-4	V
Base-Emitter Voltage	$V_{BE(ON)}$	V_{CE} =-5 V, I_C = -5 A			-1.5	V
DC Current Gain	h_{FE1}	V_{CE} = -5 V, I_C = -1.5 A	55		160	
	h_{FE2}	V_{CE} = -4 V, I_C = -15 A	15			
Transition Frequency	f_T	V_{CE} = -5 V, I_C = -1 A	3			MHz

■ CLASSIFICATION OF h_{FE1}

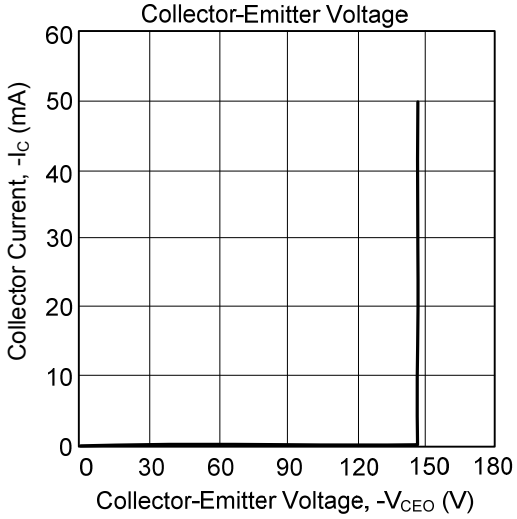
RANK	R	O
RANGE	55~110	80~160

■ TYPICAL CHARACTERISTICS

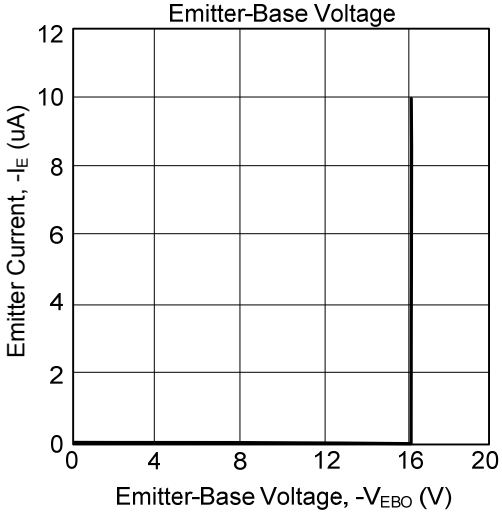
Collector Current vs. Collector-Base Voltage



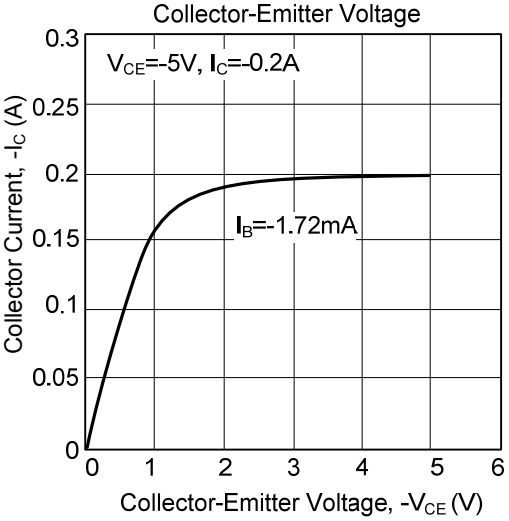
Collector Current vs. Collector-Emitter Voltage



Emitter Current vs. Emitter-Base Voltage



Collector Current vs. Collector-Emitter Voltage



Collector Current vs. Collector-Emitter Voltage