UTC UNISONIC TECHNOLOGIES CO., LTD

TIP107

PNP SILICON TRANSISTOR

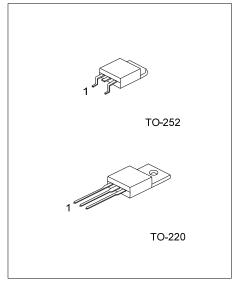
PNP EPITAXIAL TRANSISTOR

DESCRIPTION

The UTC TIP107 is designed for using in general purpose amplifier and switching applications.

FEATURES

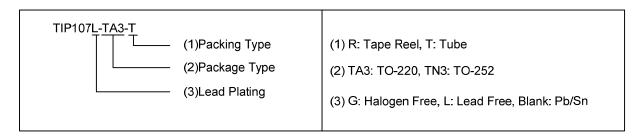
- * Low V_{CE(SAT)}
 * High Current Gain
- * Complementary to TIP102



Lead-free: TIP107L Halogen-free: TIP107G

ORDERING INFORMATION

Ordering Number			Dookogo	Pin Assignment			Dooking	
Normal	Lead Free	Halogen Free	Package	1	2	3	Packing	
TIP107-TA3-T	TIP107L-TA3-T	TIP107G-TA3-T	TO-220	В	С	Е	Tube	
TIP107-TN3-R	TIP107L-TN3-R	TIP107G-TN3-R	TO-252	В	С	Е	Tape Reel	



■ ABSOLUTE MAXIMUM RATING (T_C=25°C)

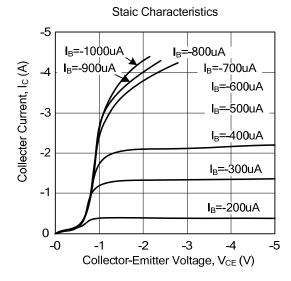
PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	V_{CBO}	-100	V	
Collector-Emitter Voltage	V _{CES}	-100	V	
Emitter-Base Voltage	V_{EBO}	-5	V	
Collector Current	DC	Ic	-8	Α
Collector Garrent	Pulse	I _{CP}	-15	Α
Base Current	DC	Ι _Β	-1	Α
Collector Power Dissipation	Pc	80	W	
Junction Temperature	T_J	150	°C	
Storage Temperature	T _{STG}	-65~+150	°C	

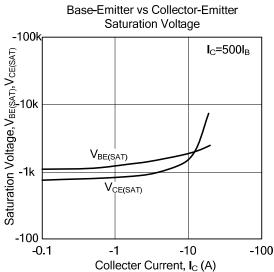
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

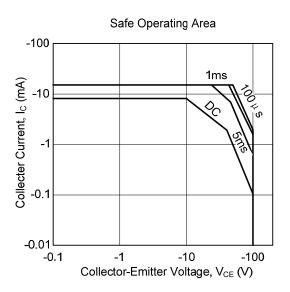
■ **ELECTRICAL CHARACTERISTICS** (T_C=25°C, unless otherwise specified)

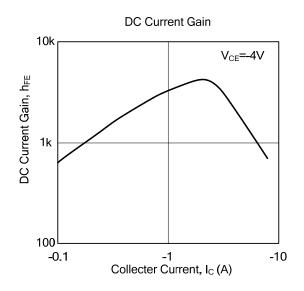
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT		
Collector-Emitter Sustaining Voltage	V _{CEO(SUS)}	I_C =-30mA, I_B =0A	-100			V		
Collector-Base Cut-Off Current	I _{CBO}	V _{CB} =-100V, I _E =0A			-50	μΑ		
Collector-Emitter Cut-Off Current	I _{CEO}	V _{CE} =-50V, I _B =0A			50	μΑ		
Emitter-Base Cut-Off Current	I _{EBO}	V_{EB} =-5 V , I_{C} =0 A			-2	mA		
ON CHARACTERISTICS								
DC Current Gain	h _{FE1}	V_{CE} =-4 V , I_{C} =-3 A	1000		20000			
Do darrent dam	h _{FE2}	V_{CE} =-4V, I_{C} =-8A	200					
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	$I_C=-3A$, $I_B=-6mA$			-2	V		
Collector-Emitter Saturation Voltage		I _C =-8A, I _B =-80mA			-2.5	V		
Base-Emitter ON Voltage	$V_{BE(ON)}$	V_{CE} =-4V, I_{C} =-8A			-2.8	V		
SMALL-SIGNAL CHARACTERISTICS								
Output Capacitance	C _{ob}	V _{CB} =-10V, I _E =0A, f=0.1MHZ			300	pF		

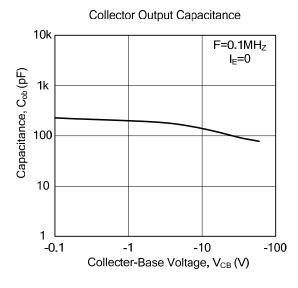
■ TYPICAL CHARACTERISTICS











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