

UTC TIP110A PN EXPITAXIAL PLANAR TRANSISTOR

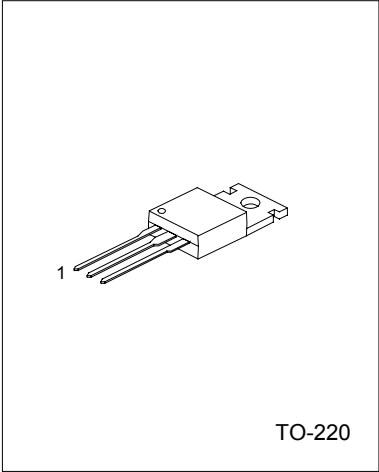
LOW SATURATION VOLTAGE PNP DARLINGTON TRANSISTOR

DESCRIPTION

The UTC TIP110A is designed for using in general purpose amplifier and switching applications.

FEATURE

- *Low $V_{CE(sat)}$
- *High current gain



1:BASE 2:COLLECTOR 3:EMITTER

MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

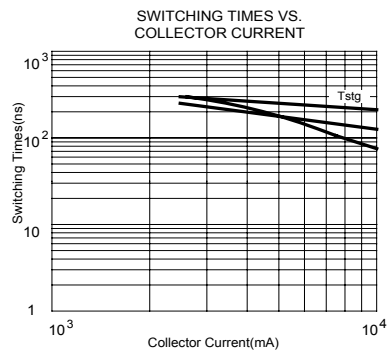
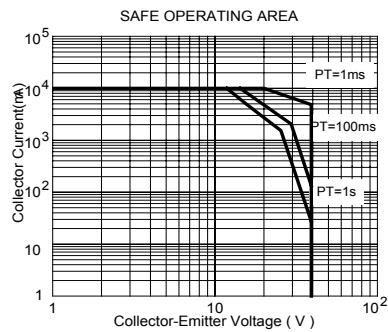
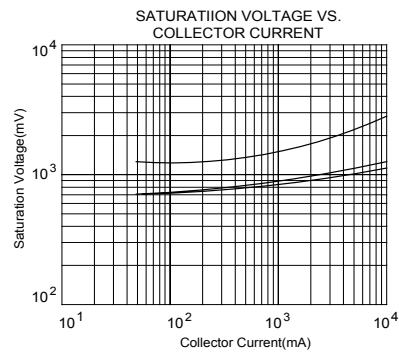
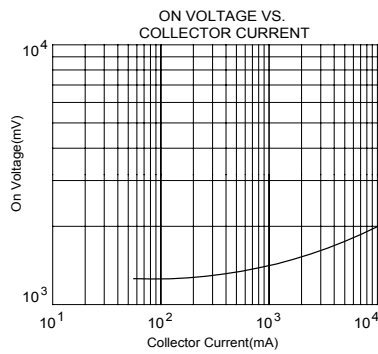
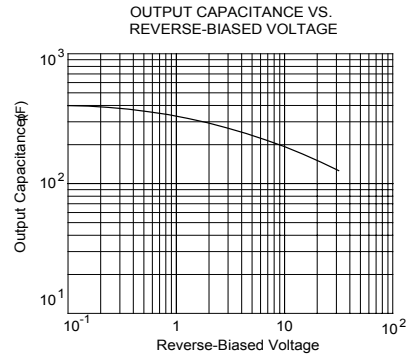
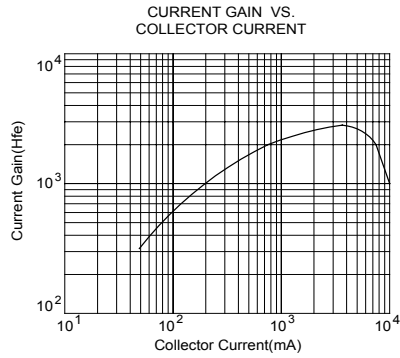
CHARACTERISTICS	SYMBOL	VALUE	UNITS
Collector Base Voltage	V_{CB0}	40	V
Collector to Emitter Voltage	V_{CE0}	30	V
Emitter To base Voltage	V_{EB0}	5	V
Collector Current	I_c	10	A
Junction Temperature	T_j	150(Max)	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 ~ +150	$^{\circ}\text{C}$
Total Power Dissipations	P_D	65	W

CHARACTERISTICS($T_a=25^{\circ}\text{C}$)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
BV_{CE0}	$I_c=100\text{mA}$	30			V
I_{CB0}	$V_{CB}=40\text{V}$			1	μA
I_{CE0}	$V_{CE}=20\text{V}$			1	μA
I_{EB0}	$V_{EB}=5\text{V}$			100	nA
$V_{CE(SAT)}$	$I_c=10\text{A}, I_B=10\text{mA}$			2.0	V
$V_{BE(ON)}$	$I_c=5\text{mA}, V_{CE}=2.0\text{V}$			2.0	V
h_{FE1}	$I_c=500\text{mA}, V_{CE}=2.0\text{V}$	2		60	K
h_{FE2}	$I_c=10\text{A}, V_{CE}=2.0\text{V}$	1	20	60	K

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TYPICAL PERFORMANCE CHARACTERISTICS



UTC TIP110A PN-EPITAXIAL PLANAR TRANSISTOR

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