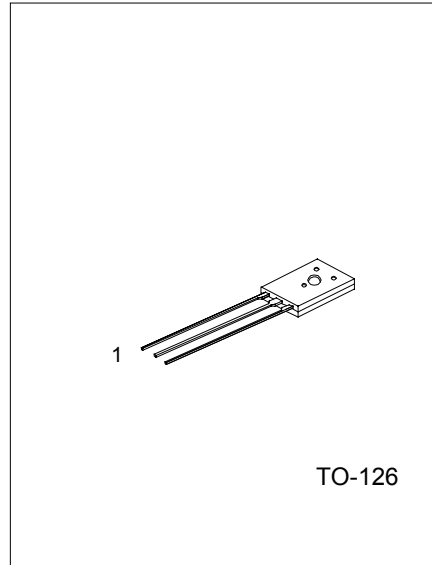


NPN EPITAXIAL TRANSISTOR

DESCRIPTION

The UTC TIP122 is a NPN epitaxial transistor, designed for use in general purpose amplifier low-speed switching applications.



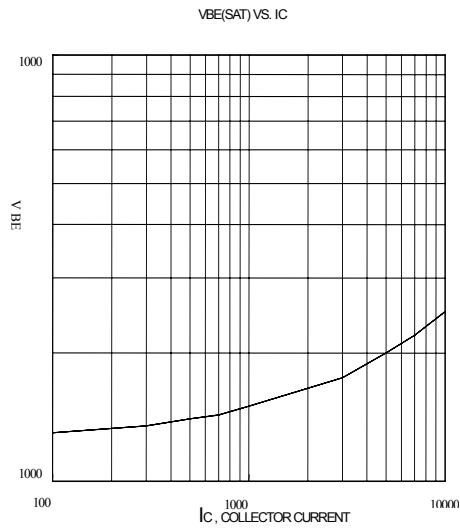
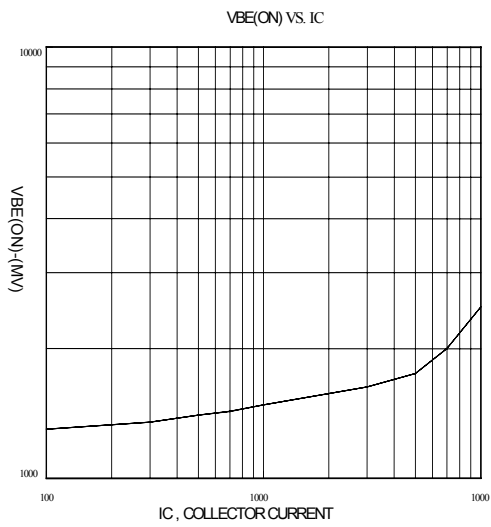
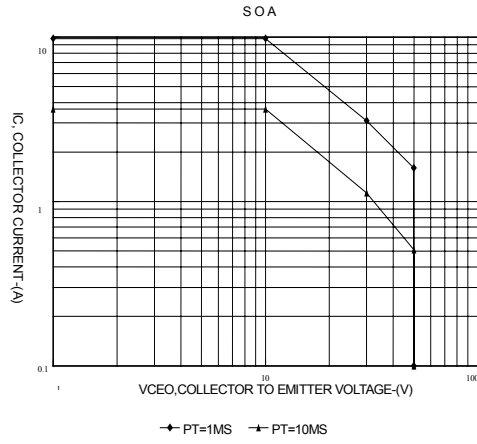
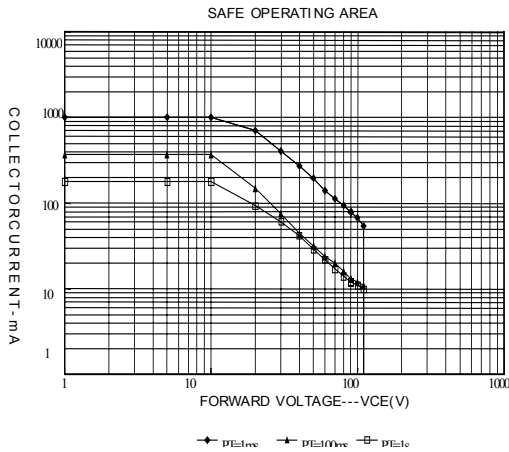
1:EMITTER 2:COLLECTOR 3:BASE

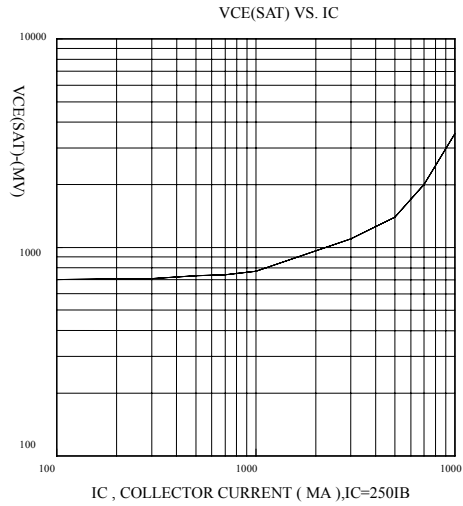
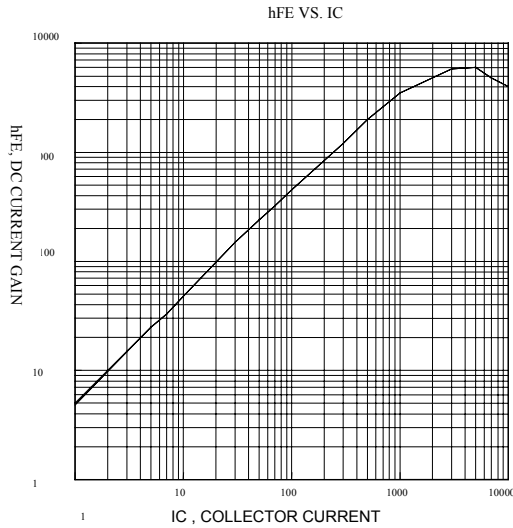
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	$V_{CBO}$	100	V
Collector to Emitter Voltage	$V_{CEO}$	100	V
Emitter to Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	5	A
Collector Dissipation (Tc=25°C)	$P_C$	40	W
Storage Temperature	Tstg	-55 ~ +150	°C
Junction Temperature	Tj	150	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=100mA$	100			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=100V$			200	uA
Collector-Cut-Off Current	$I_{CEO}$	$V_{CE}=50V$			500	uA
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=5V$			2	mA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)1}$	$I_C=3A, I_B=12mA$			2	V
Collector-Emitter Saturation Voltage	$V_{CE(SAT)2}$	$I_C=5A, I_B=20mA$			4	V
Base-Emitter Saturation Voltage	$V_{BE(ON)}$	$V_{CE}=3V, I_C=3A$			2.5	V
DC Current Gain	$h_{FE}$	$I_C=500mA, V_{CE}=3V$ $I_C=3A, V_{CE}=3V$	1000 1000			





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.