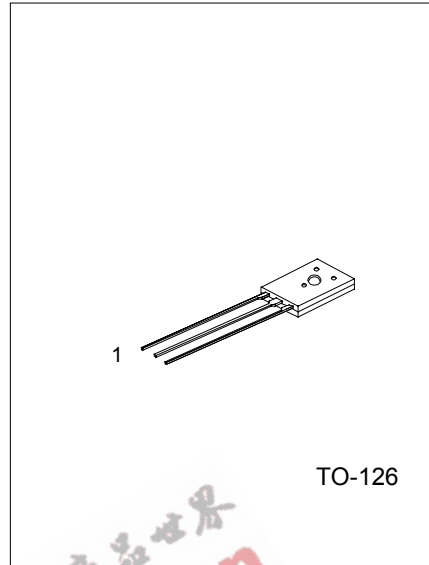


NPN EPITAXIAL TRANSISTOR

DESCRIPTION

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



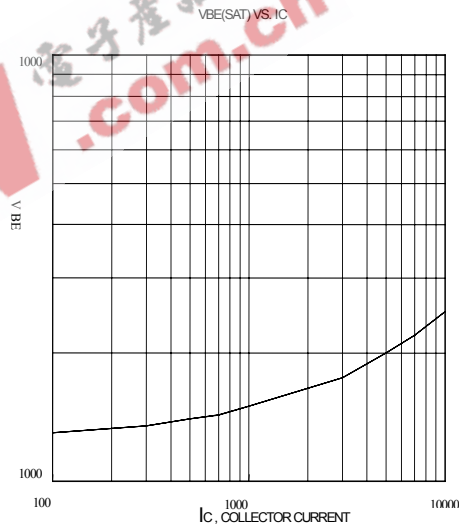
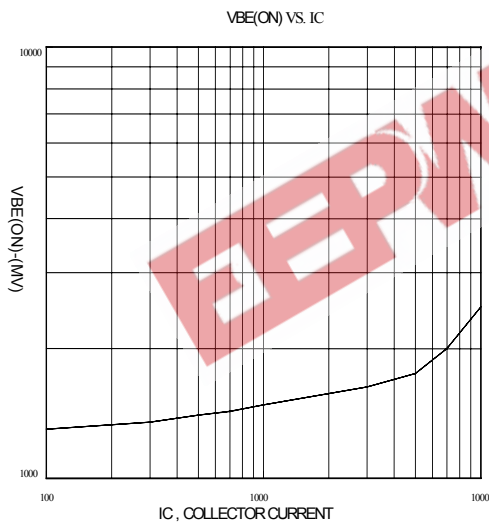
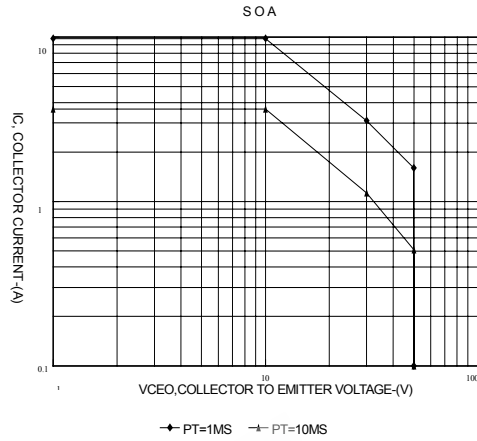
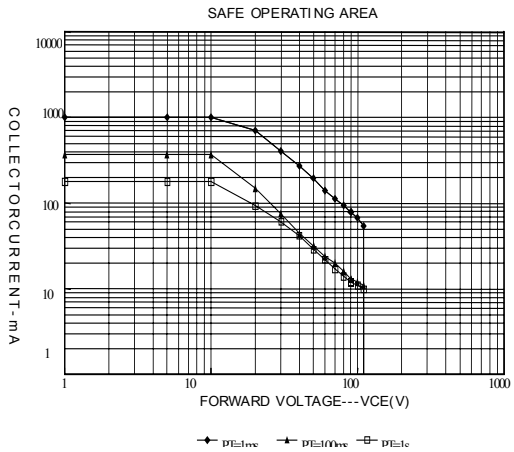
1:EMITTER 2:COLLECTOR 3:BASE

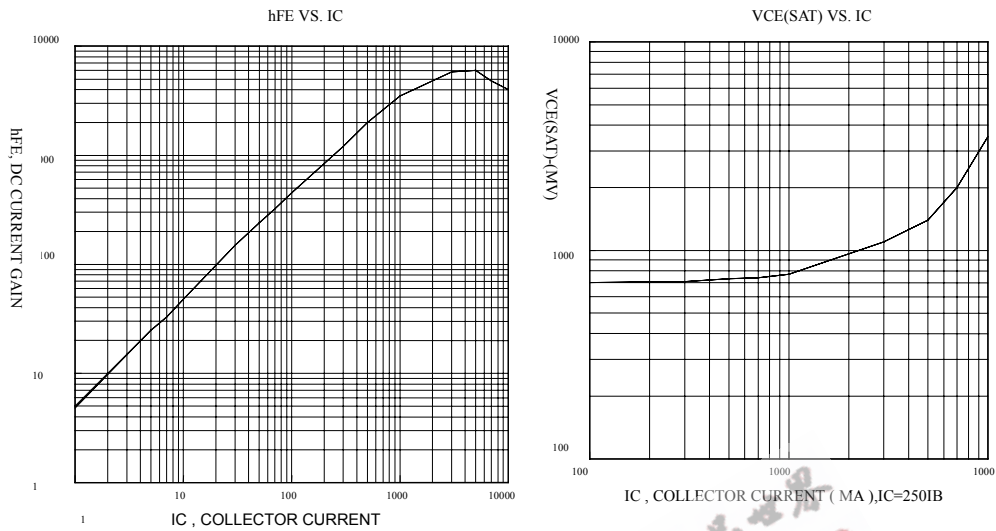
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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	$T_J$	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			





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