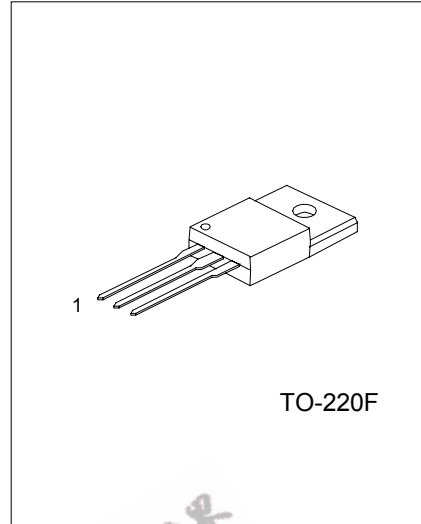


UTC 2SA1837 PNP EPITAXIAL SILICON TRANSISTOR

POWER AMPLIFIER
APPLICATIONS DRIVER STAGE
AMPLIFIER APPLICATIONS

FEATURES

- * High Transition Frequency: $f_T=70\text{MHz}$ (Typ.)
- * Complementary to UTC 2SC4793



1: BASE 2: COLLECTOR 3: EMITTER

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

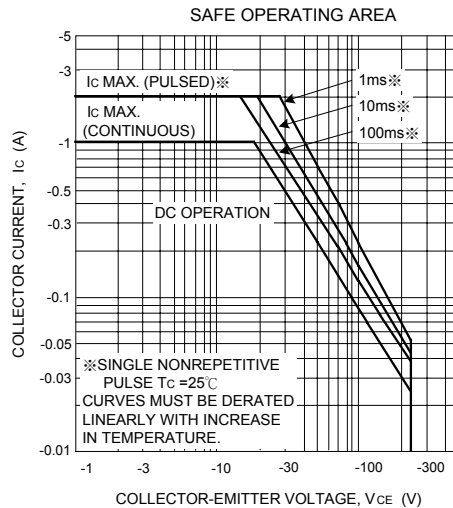
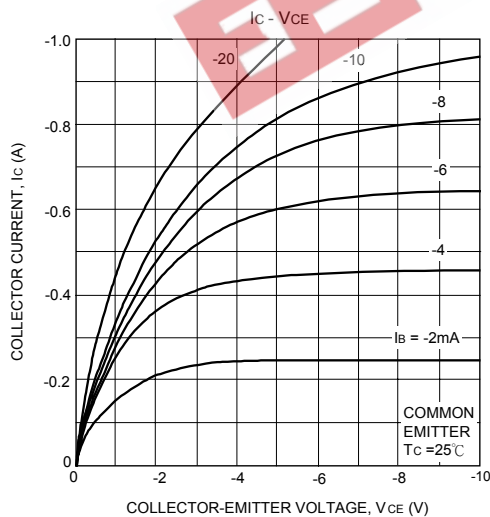
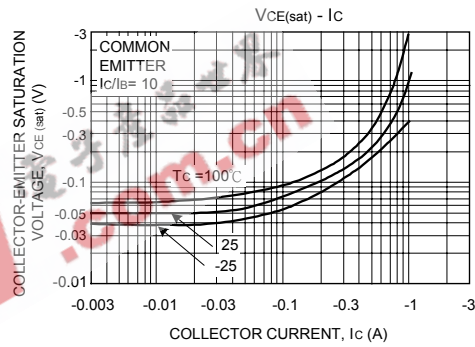
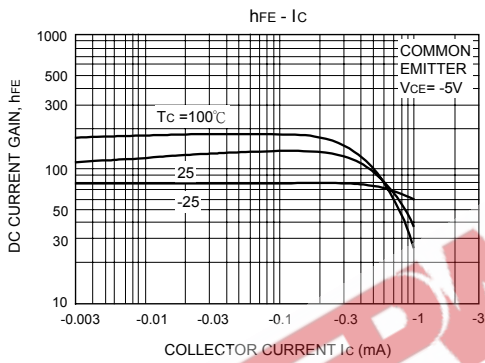
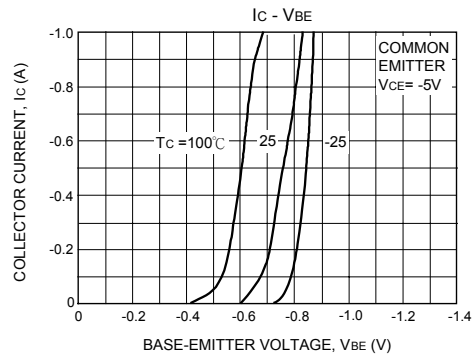
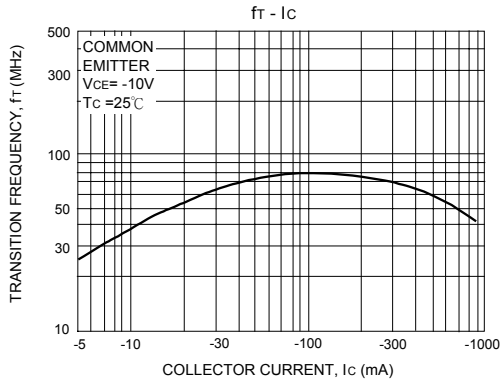
PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CB0}	-230	V
Collector-Emitter Voltage	V_{CEO}	-230	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-1	A
Base Current	I_B	-0.1	A
Collector Power Dissipation	P_C	2.0	W
$T_a=25^\circ\text{C}$ $T_c=25^\circ\text{C}$		20	
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10\text{mA}, I_B = 0$	-230			V
Collector Cut-off Current	I_{CBO}	$V_{CB} = -230\text{V}, I_E = 0$			-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$			-1.0	μA
DC Current Gain	h_{FE}	$V_{CE} = -5\text{V}, I_C = -100\text{mA}$	100		320	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$			-1.5	V
Base -Emitter Voltage	V_{BE}	$V_{CE} = -5\text{V}, I_C = -500\text{mA}$			-1.0	V
Transition Frequency	f_T	$V_{CE} = -10\text{V}, I_C = -100\text{mA}$		70		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_C = 0, f = 1\text{MHz}$		30		pF

UTC 2SA1837 PNP EPITAXIAL SILICON TRANSISTOR

TYPICAL CHARACTERISTICS



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