



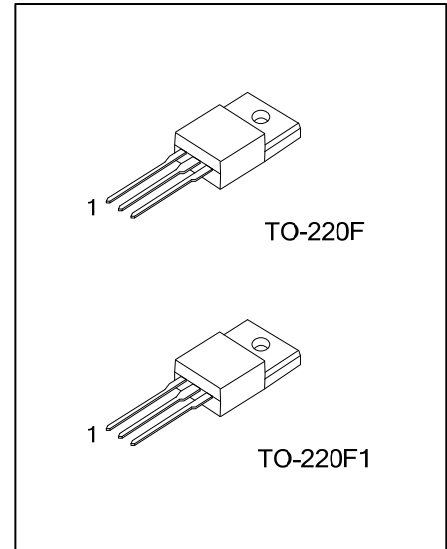
2SA1837

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**



■ ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen-Free		1	2	3	
2SA1837L-TF3-T	2SA1837G-TF3-T	TO-220F	B	C	E	Tube
2SA1837L-TF1-T	2SA1837G-TF1-T	TO-220F1	B	C	E	Tube

Note: Pin Assignment: B: Base C: Collector E: Emitter

2SA1837L-TF3-T	(1) Packing Type (2) Package Type (3) Lead Plating	(1) T: Tube (2) TF3: TO-220F, TF1: TO-220F1 (3) L: Lead Free Plating, G: Halogen Free
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■ ABSOLUTE MAXIMUM RATING (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	-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	W
		20	
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

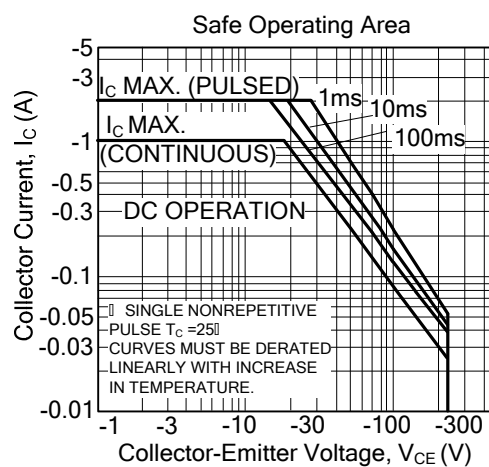
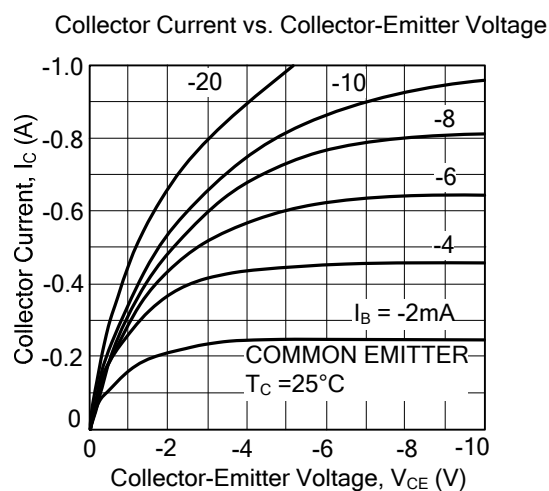
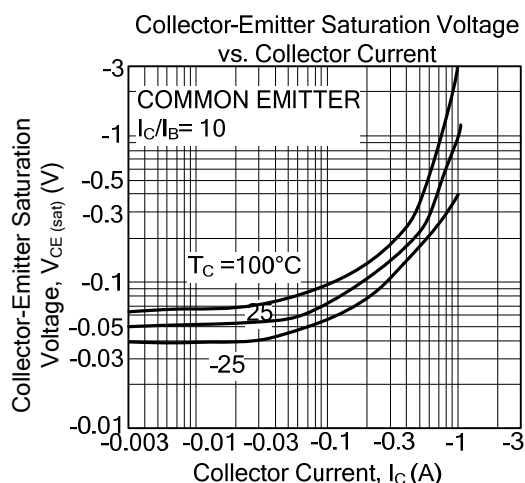
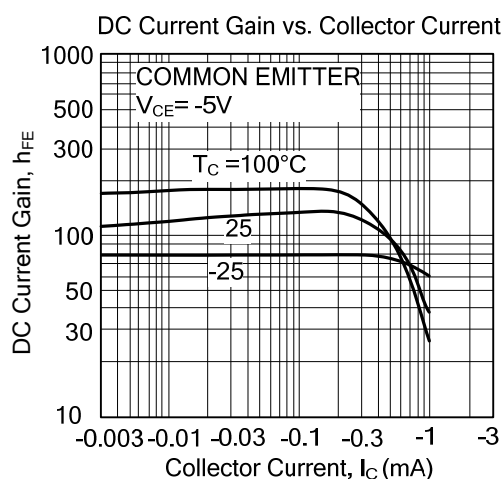
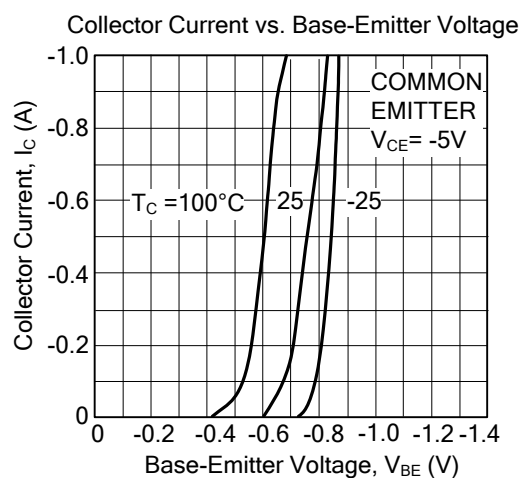
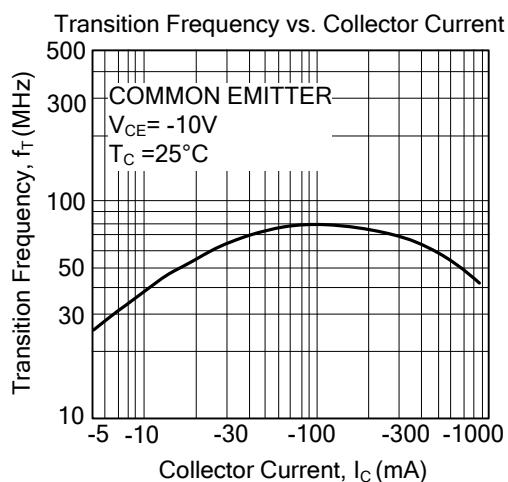
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = -10mA, I _B =0	-230			V
Collector Cut-off Current	I _{CBO}	V _{CB} = -230V, I _E =0			-1.0	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} = -5V, I _C =0			-1.0	μA
DC Current Gain	h _{FE}	V _{CE} = -5V, I _C = -100mA	100		320	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = -500mA, I _B = -50mA			-1.5	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	V _{CE} = -5V, I _C = -500mA			-1.0	V
Transition Frequency	f _T	V _{CE} = -10V, I _C = -100mA		70		MHz
Collector Output Capacitance	C _{ob}	V _{CB} = -10V, I _C =0, f=1MHz		30		pF

TYPICAL CHARACTERISTICS



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