

UTC UNISONIC TECHNOLOGIES CO., LTD

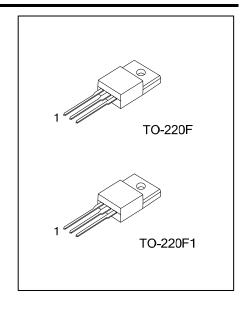
2SA1837

PNP EPITAXIAL SILICON TRANSISTOR

POWER AMPLIFIER APPLICATIONS DRIVER STAGE AMPLIFIER **APPLICATIONS**

FEATURES

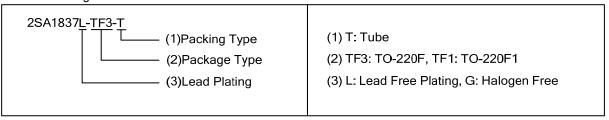
- * High Transition Frequency: f_T=70MH_Z (Typ.)
- * Complementary to UTC 2SC4793



ORDERING INFORMATION

I	Order Number		Doolsone	Pin Assignment			Deakins
	Lead Free	Halogen-Free	Package	1	2	3	Packing
	2SA1837L-TF3-T	2SA1837G-TF3-T	TO-220F	В	С	Е	Tube
	2SA1837L-TF1-T	2SA1837G-TF1-T	TO-220F1	В	С	Е	Tube

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



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■ ABSOLUTE MAXIMUM RATING (T_A=25°C, unless otherwise specified)

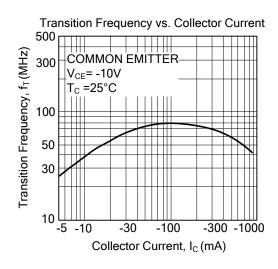
PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-230	V
Collector-Emitter Voltage		V_{CEO}	-230	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current		Ic	-1	Α
Base Current		I_{B}	-0.1	Α
Callantas Bayyas Dinainatias	T _A =25°C	P _C	2	14/
Collector Power Dissipation	T _C =25°C		20	W
Junction Temperature		TJ	150	°C
Storage Temperature Range		T _{STG}	-55 ~ 150	°C

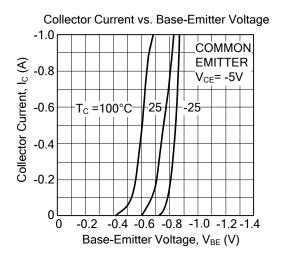
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

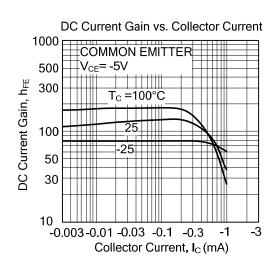
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

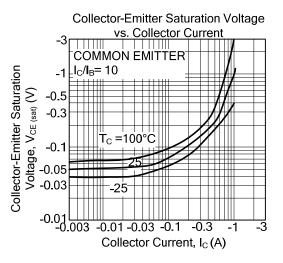
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_CEO	I _C = -10mA, I _B =0	-230			V
Collector Cut-off Current	I _{CBO}	$V_{CB} = -230V, I_{E} = 0$			-1.0	μΑ
Emitter Cut-off Current	I _{EBO}	V_{EB} = -5V, I_C =0			-1.0	μΑ
DC Current Gain	h_{FE}	V_{CE} = -5V, I_{C} = -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	Cob	V _{CB} = -10V, I _C =0, f=1MHz		30		pF

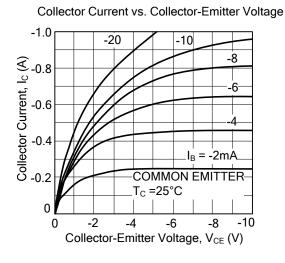
■ TYPICAL CHARACTERISTICS

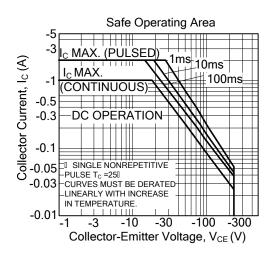












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