



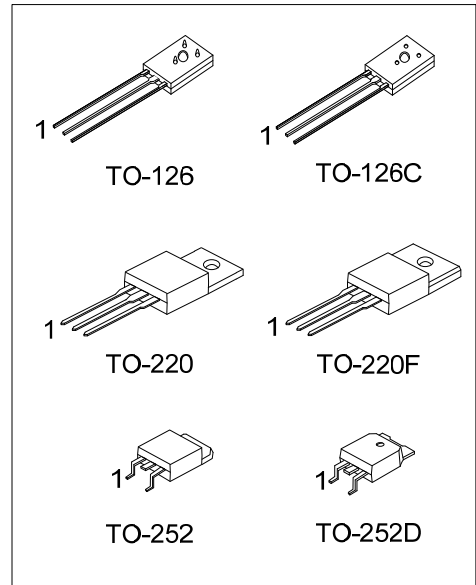
2SB857

PNP SILICON TRANSISTOR

SILICON PNP TRANSISTOR

■ DESCRIPTION

Low frequency power amplifier.



■ ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SB857L-x-T60-K	2SB857G-x-T60-K	TO-126	E	C	B	Bulk
2SB857L-x-T6C-K	2SB857G-x-T6C-K	TO-126C	E	C	B	Bulk
2SB857L-x-TA3-T	2SB857G-x-TA3-T	TO-220	B	C	E	Tube
2SB857L-x-TF3-T	2SB857G-x-TF3-T	TO-220F	B	C	E	Tube
2SB857L-x-TN3-R	2SB857G-x-TN3-R	TO-252	B	C	E	Tape Reel
2SB857L-x-TND-R	2SB857G-x-TND-R	TO-252D	B	C	E	Tape Reel

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

<p>2SB857G-x-T60-K</p> <p>(1) Packing Type (2) Package Type (3) Rank (4) Green Package</p>	<p>(1) K: Bulk, T: Tube, R: Tape Reel (2) T60: TO-126, T6C: TO-126C, TA3: TO-220, TF3: TO-220F, TN3: TO-252, TND: TO-252D (3) x: refer to Classification of h_{FE2} (4) G: Halogen Free and Lead Free, L: Lead Free</p>
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■ MARKING

TO-126 / TO-126C	TO-220 / TO-220F / TO-252
<p>UTC □□□□ → Date Code 2SB857 □ → L: Lead Free G: Halogen Free</p>	<p>UTC 2SB857 □ → L: Lead Free G: Halogen Free □□□□□□ → Date Code</p> <p>Lot Code ←</p>

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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltages		V _{CBO}	-130	V
Collector-Emitter Voltage		V _{CEO}	-100	V
Emitter-Base Voltage		V _{EBO}	-5	V
Collector Current		I _C	-4	A
Collector Current (I _C Peak)		I _{C(PEAK)}	-8	A
Total Power Dissipation (T _C =25°C)	TO-126	P _D	10	W
	TO-126C			
	TO-220			
	TO-220F			
	TO-252 TO-252D			
Junction Temperature		T _J	+150	°C
Storage Temperature		T _{STG}	-50 ~ +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)

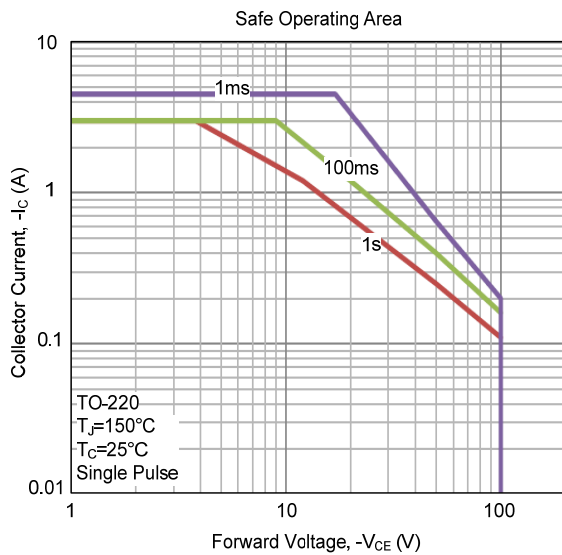
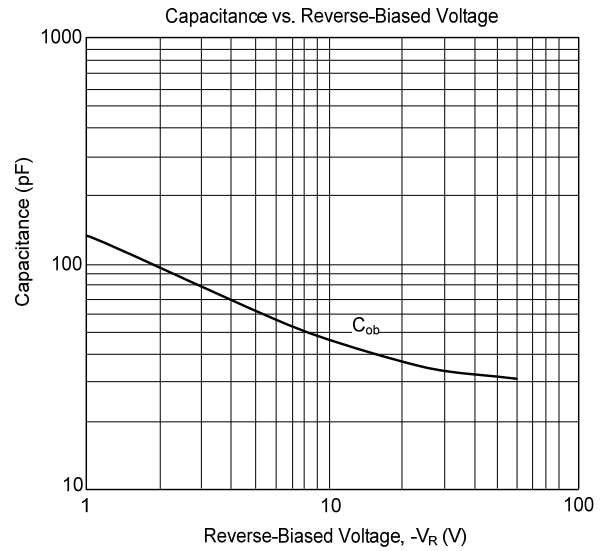
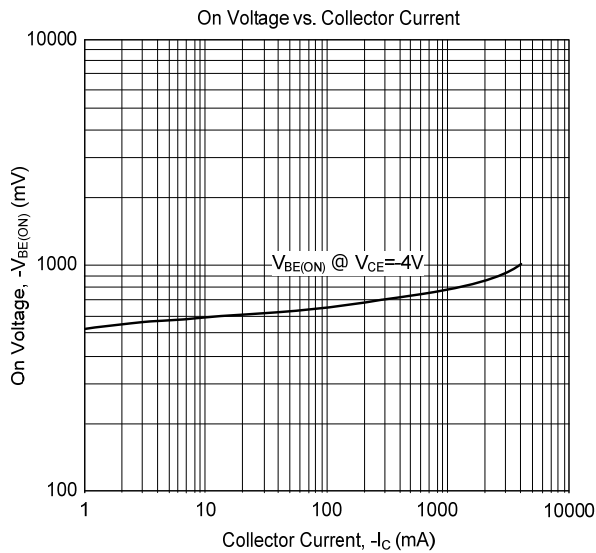
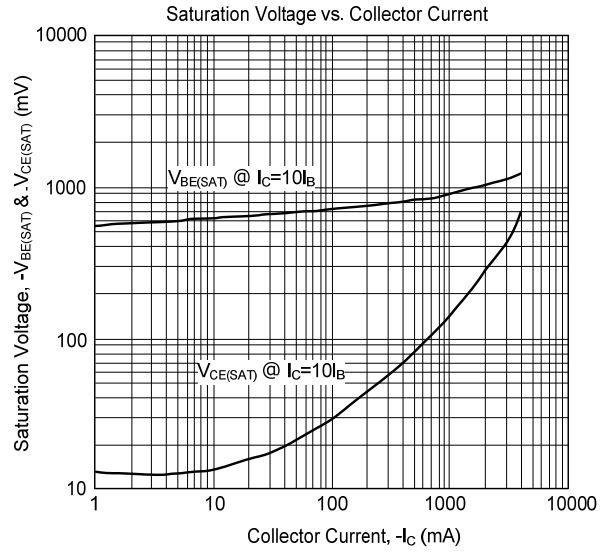
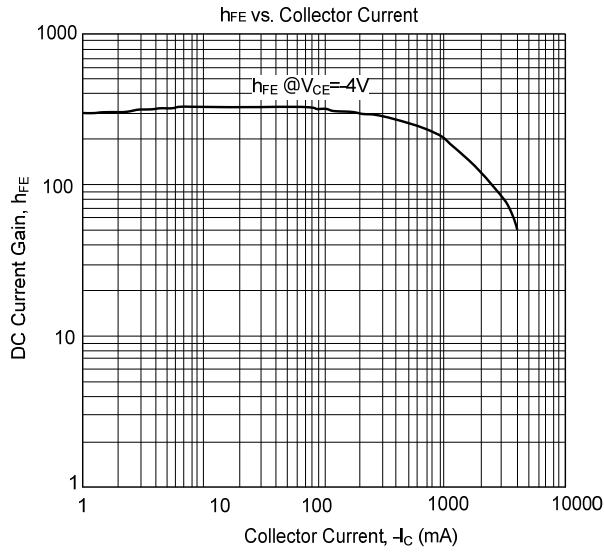
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-10μA, I _E =0	-130			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-50mA, I _B =0	-100			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =-10μA, I _C =0	-5			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-2A, I _B =-0.2A (Note)			-1	V
Base-Emitter Saturation Voltage	V _{BE(ON)}	V _{CE} =-4V, I _C =-1A (Note)			-1	V
Collector Cut-off Current	I _{CBO}	V _{CB} =-130V, I _C =0			-1	μA
DC Current Gain	h _{FE1}	V _{CE} =-4V, I _C =-0.1A (Note)	35			
	h _{FE2}	V _{CE} =-4V, I _C =-1A (Note)	60		320	
Transition Frequency	f _T	V _{CE} =-4V, I _C =-500mA, f=100MHz		15		MHz

Note: Pulse Test: Pulse Width ≤ 380μS, Duty Cycle ≤ 2%.

■ CLASSIFICATION OF h_{FE2}

CLASSIFICATION	B	C	D
RANGE	60 ~ 120	100 ~ 200	160 ~ 320

TYPICAL CHARACTERISTICS



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