



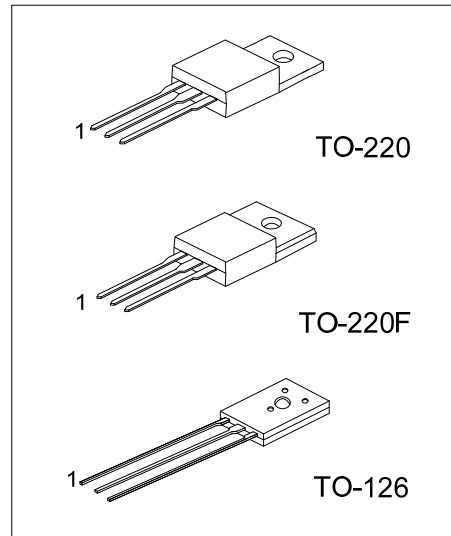
2SB834

PNP SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

■ DESCRIPTION

Low frequency power amplifier applications.



Lead-Free: 2SB834L

Halogen Free: 2SB834G

■ ORDERING INFORMATION

Ordering Number			Package	Pin Assignment			Packing
Normal	Lead Free	Halogen Free		1	2	3	
2SB834-x-T60-K	2SB834L-x-T60-K	2SB834G-x-T60-K	TO-126	E	C	B	Bulk
2SB834-x-TA3-T	2SB834L-x-TA3-T	2SB834G-x-TA3-T	TO-220	B	C	E	Tube
2SB834-x-TF3-T	2SB834L-x-TF3-T	2SB834G-x-TF3-T	TO-220F	B	C	E	Tube

<p>2SB834L-x-T60-K</p>	<p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Rank</p> <p>(4) Lead Plating</p>	<p>(1) K: Bulk, T: Tube</p> <p>(2) T60: TO-126, TA3: TO-220, TF3: TO-220F</p> <p>(3) x: refer to Classification of h_{FE1}</p> <p>(4) G: Halogen Free, L: Lead Free, Blank: Pb/Sn</p>
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■ ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-60	V
Collector-Emitter Voltage		V_{CEO}	-60	V
Emitter-Base Voltage		V_{EBO}	-7	V
Collector Current		I_C	-3	A
Base Current		I_B	-0.5	A
Power Dissipation ($T_C=25^\circ\text{C}$)	TO-126/TO-220F	P_C	25	W
	TO-220		30	W
Junction Temperature		T_J	+125	$^\circ\text{C}$
Storage Temperature		T_{STG}	-40 ~ +150	$^\circ\text{C}$

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.

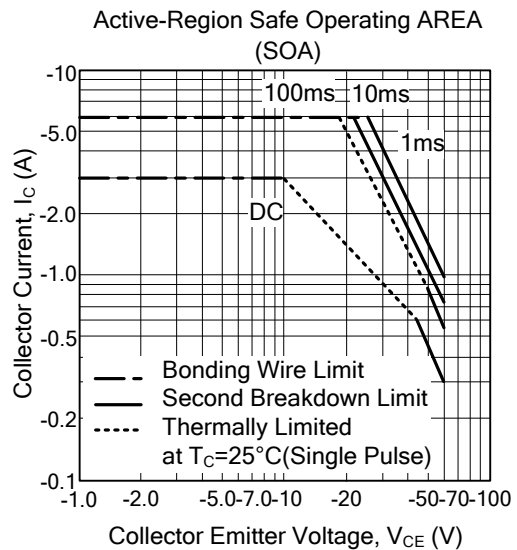
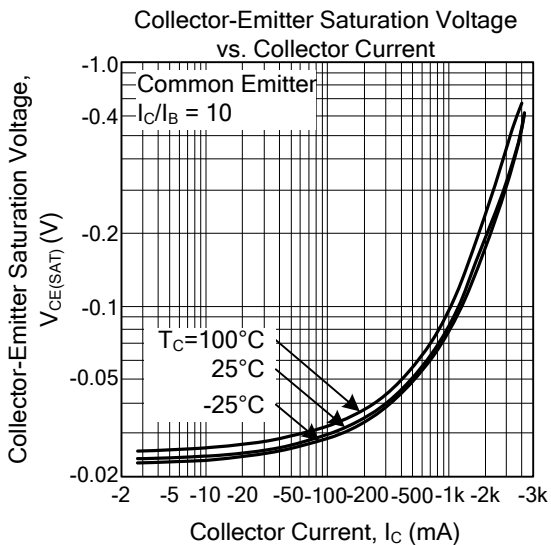
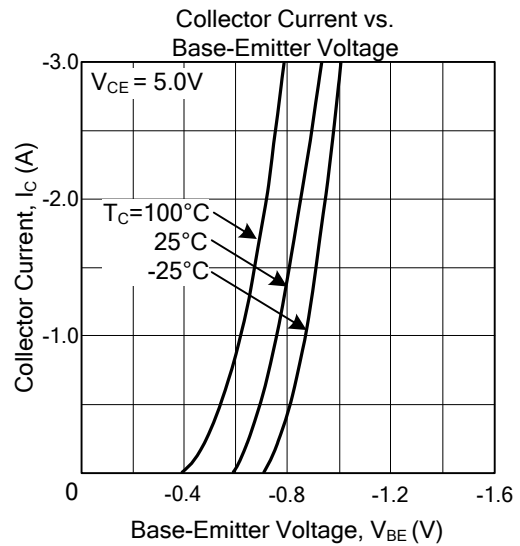
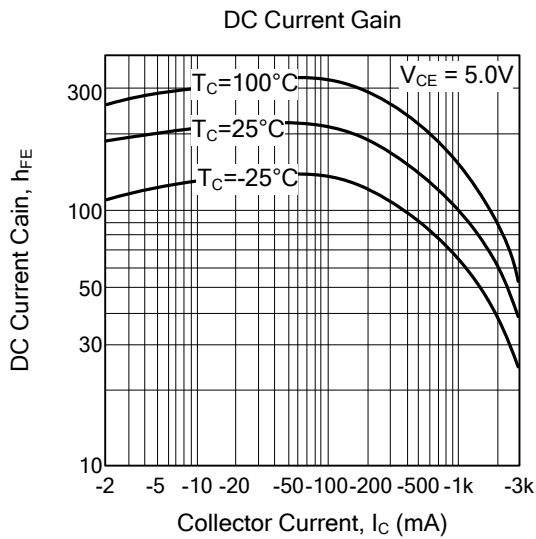
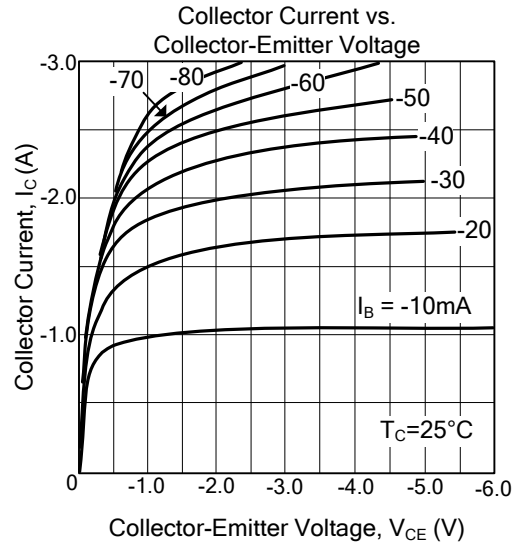
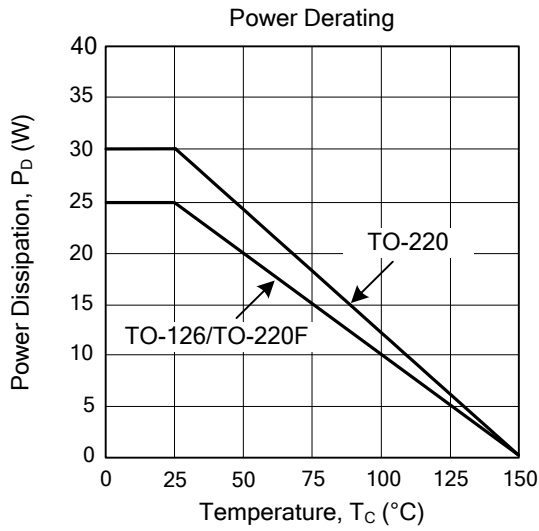
■ ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=-50\text{mA}$	-60			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-60\text{V}$			-100	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-7\text{V}$			-100	μA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=-3\text{A}, I_B=0.3\text{A}$			-1	V
Base-Emitter On Voltage	$V_{BE(ON)}$	$V_{CE}=-5\text{V}, I_C=-0.5\text{A}$		-0.7	-1	V
DC Current Gain	h_{FE1}	$I_C=-0.5\text{A}, V_{CE}=-5\text{V}$	60		300	
	h_{FE2}	$I_C=-3\text{A}, V_{CE}=-5\text{V}$	20			
Current Gain Bandwidth Product	f_T	$V_{CE}=-5\text{V}, I_C=-0.5\text{A}$		9		MHZ

■ CLASSIFICATION of h_{FE1}

RANK	O	Y	GR
RANGE	60-120	100-200	150-300

TYPICAL CHARACTERISTICS



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