



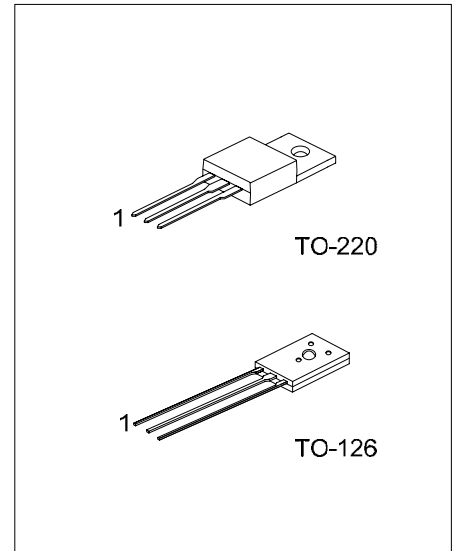
## 2SB834

## PNP SILICON TRANSISTOR

### HIGH VOLTAGE TRANSISTOR

#### DESCRIPTION

Low frequency power amplifier applications.



\*Pb-free plating product number: 2SB834L

#### ORDERING INFORMATION

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

<p>2SB834L-x-T60-K</p> <p>(1)Packing Type (2)Package Type (3)Rank (4)Lead Plating</p>	<p>(1) K: Bulk, T: Tube (2) T60: TO-126, TA3: TO-220 (3) x: refer to Classification of <math>h_{FE1}</math> (4) L: Lead Free Plating, 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
Total Power Dissipation ( $T_C=25$ )	TO-126	25	W
	TO-220	30	W
Junction Temperature	$T_J$	+125	
Storage Temperature	$T_{STG}$	-40 ~ +150	

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.

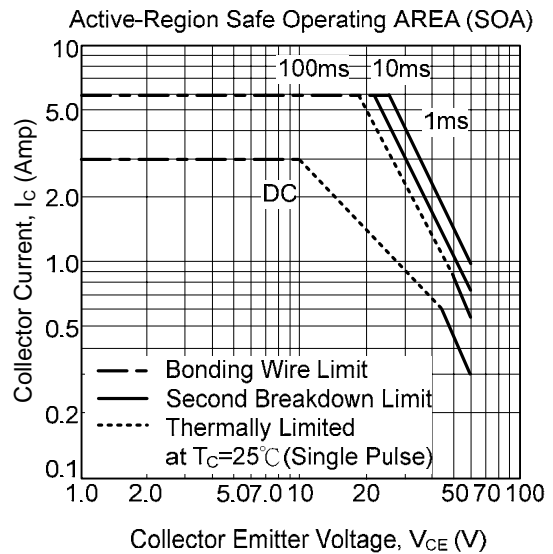
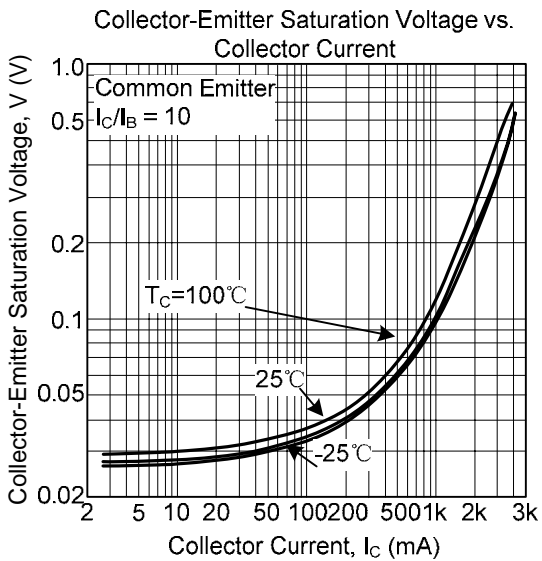
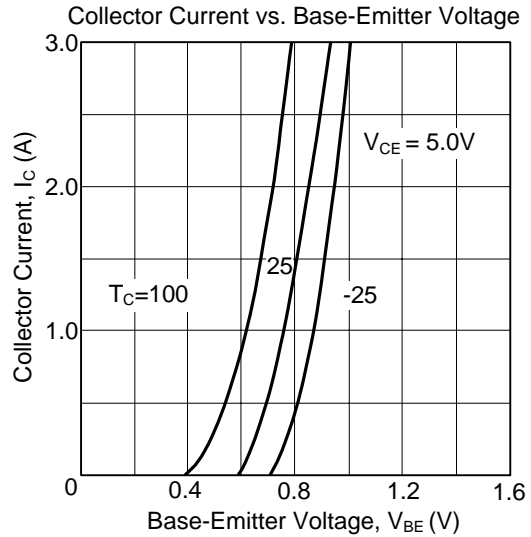
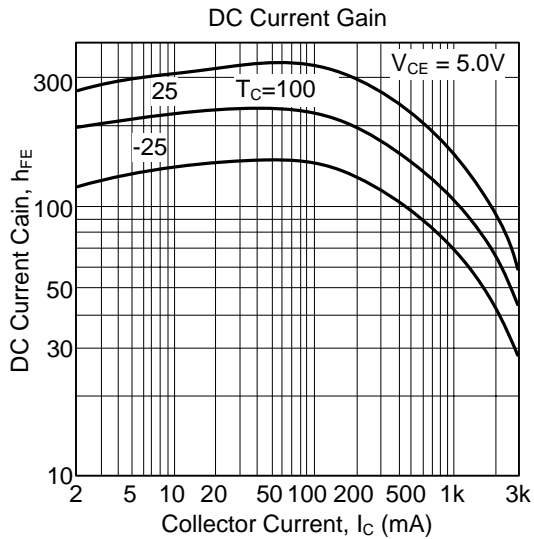
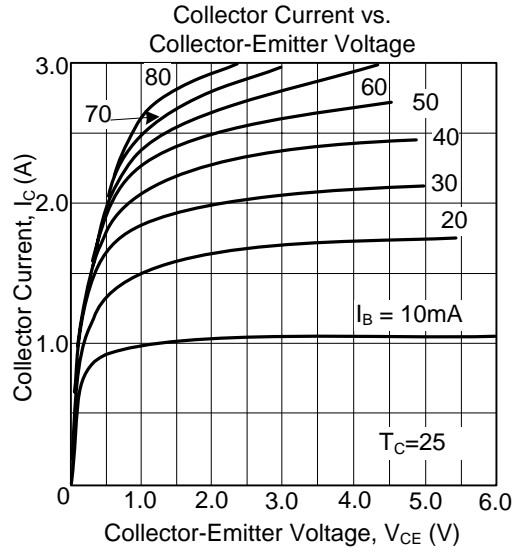
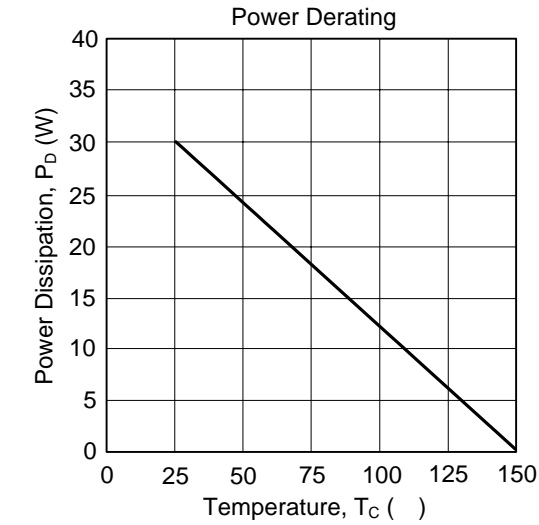
■ ELECTRICAL CHARACTERISTICS ( $T_a=25$  , unless otherwise specified)

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

■ CLASSIFICATION of  $h_{FE1}$

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

## TYPICAL CHARACTERISTICS



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