



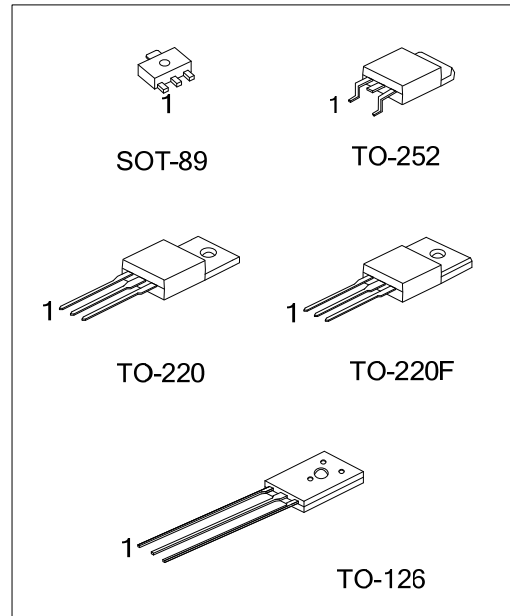
**2SB834**

**PNP SILICON TRANSISTOR**

**HIGH VOLTAGE TRANSISTOR**

■ **DESCRIPTION**

Low frequency power amplifier applications.



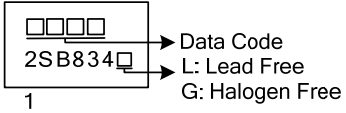
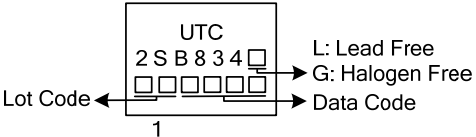
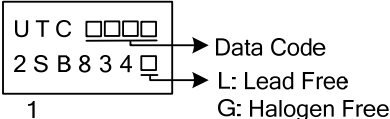
■ **ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SB834L-x-AB3-R	2SB834G-x-AB3-R	SOT-89	B	C	E	Tape Reel
2SB834L-x-T60-K	2SB834G-x-T60-K	TO-126	E	C	B	Bulk
2SB834L-x-TA3-T	2SB834G-x-TA3-T	TO-220	B	C	E	Tube
2SB834L-x-TF3-T	2SB834G-x-TF3-T	TO-220F	B	C	E	Tube
2SB834L-x-TN3-R	2SB834G-x-TN3-R	TO-252	B	C	E	Tape Reel

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

<p>2SB834L-x-AB3-R</p> <p>(1)Packing Type (2)Package Type (3)Rank (4)Lead Plating</p>	<p>(1) K: Bulk, T: Tube, R: Tape Reel (2) AB3: SOT-89, T60: TO-126, TA3: TO-220, TF3: TO-220F, TN3: TO-252 (3) x: refer to Classification of <math>h_{FE1}</math> (4) L: Lead Free, G: Halogen Free</p>
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■ MARKING INFORMATION

PACKAGE	MARKING
SOT-89	
TO-220 TO-220F TO-252	
TO-126	

■ 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 ( $T_C=25^\circ\text{C}$ )	SOT-89	$P_D$	3	W
	TO-220		30	W
	TO-252		26	W
	TO-126/TO-220F		25	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.

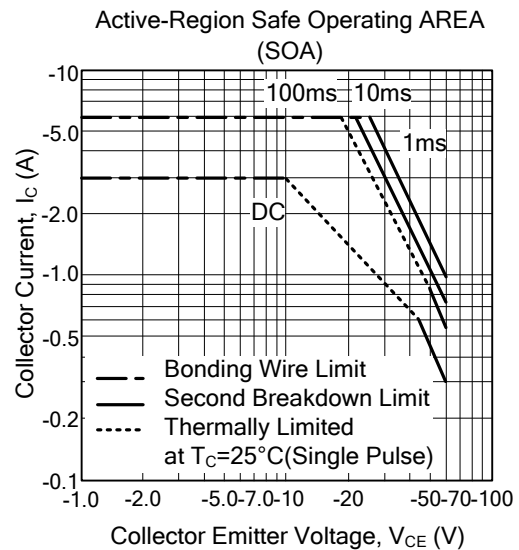
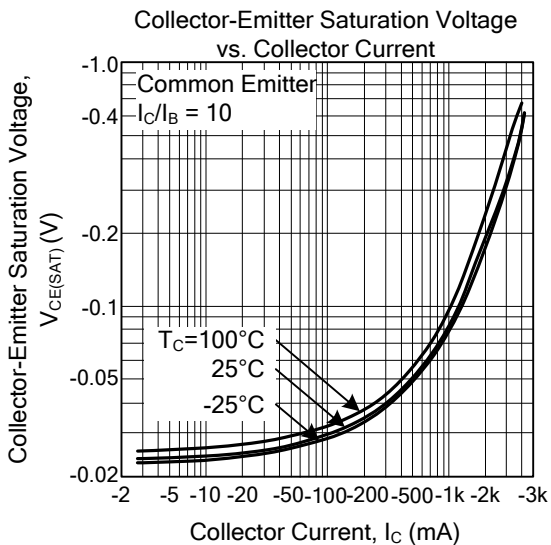
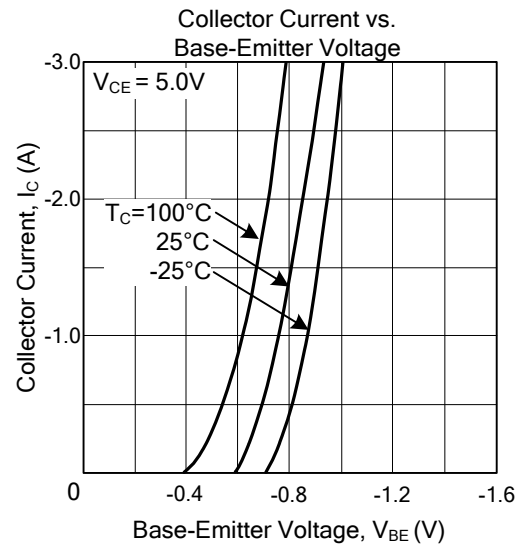
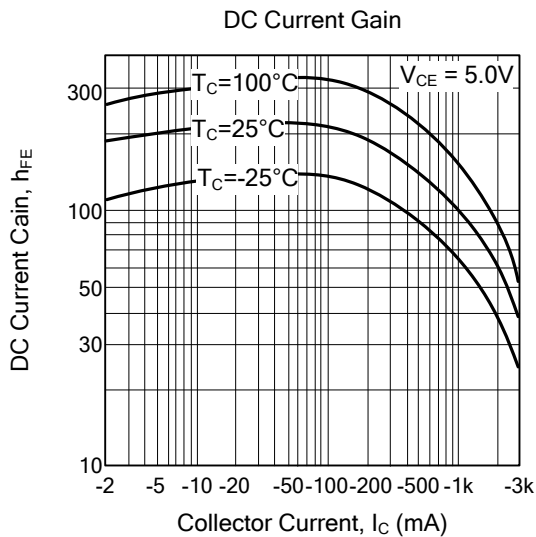
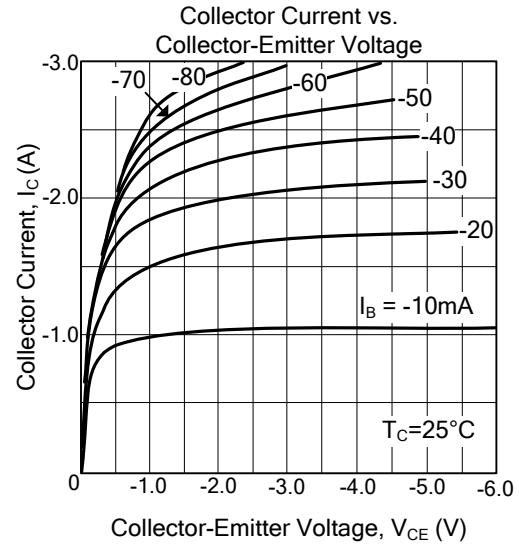
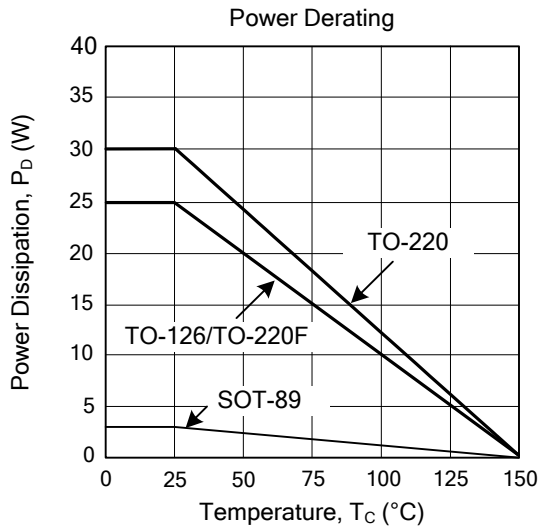
■ ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ , unless otherwise specified)

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	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-7\text{V}$			-100	$\mu\text{A}$
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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