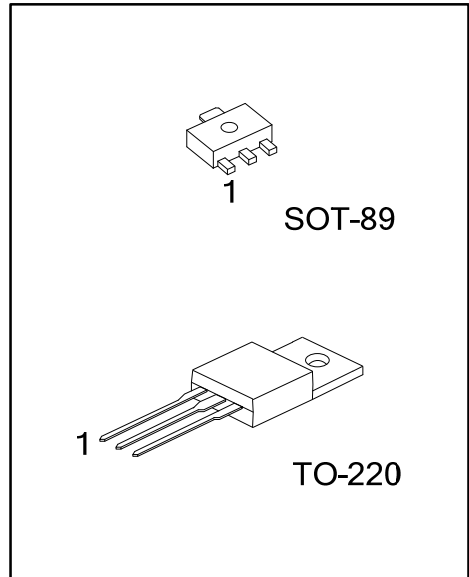


**2SD880****NPN SILICON TRANSISTOR****NPN EPITAXIAL TRANSISTOR****DESCRIPTION**

The UTC **2SD880** is designed for audio frequency power amplifier applications.

FEATURES

- * High DC Current Gain: $h_{FE}=200(\text{Max.})(V_{CE}=5V, I_C=0.5A)$
- * Low Saturation Voltage: $V_{CE(SAT)}=1.0V(\text{Max.})(I_C=3A, I_B=0.3A)$
- * Complementary to 2SB834

**ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
-	2SD880G-AB3-R	SOT-89	B	C	E	Tube
2SD880L-TA3-T	2SD880G-TA3-T	TO-220	B	C	E	Tube

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

2SD880G-AB3-R (1) Packing Type (2) Package Type (3) Green Package	(1) T: Tube, R: Tape Reel (2) AB3: SOT-89, TA3: TO-220 (3) G: Halogen Free and Lead Free, L: Lead Free
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MARKING

SOT-89	TO-220
1 2SD880G Data Code	1 UTC 2SD880 Lot Code Data Code L: Lead Free G: Halogen Free

■ **ABSOLUTE MAXIMUM RATINGS** ($T_A = 25^\circ\text{C}$, unless otherwise specified)

PARAMETER			SYMBOL	RATINGS	UNIT
Collector to Base Voltage			V _{CBO}	60	V
Collector to Emitter Voltage			V _{CEO}	60	V
Emitter to Base Voltage			V _{EBO}	7	V
Collector Current			I _C	3	A
Base Current			I _B	0.5	A
Power Dissipation	SOT-89	T _A =25	P _D	0.55	W
	TO-220			1.5	
	SOT-89	T _C =25		3	
	TO-220			30	
Junction Temperature			T _J	150	W
Storage Temperature			T _{STG}	-55~+150	°C

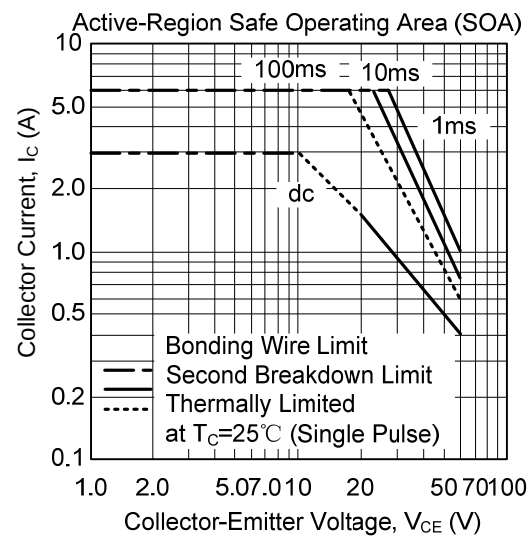
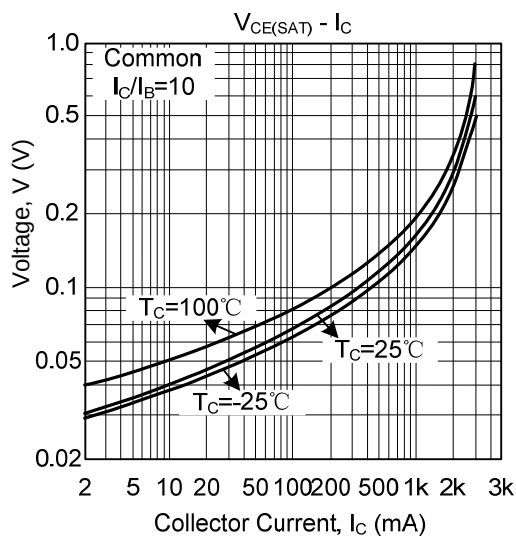
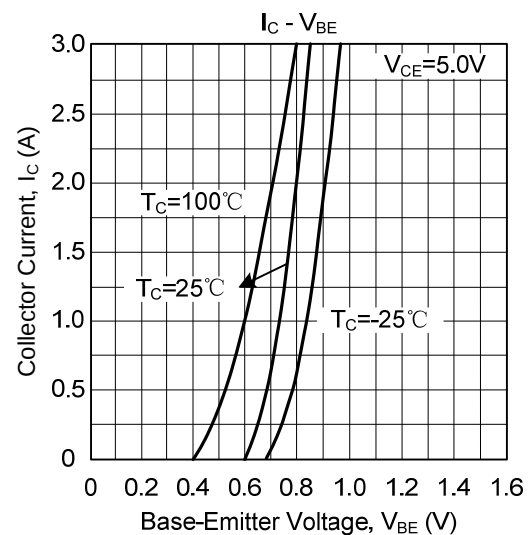
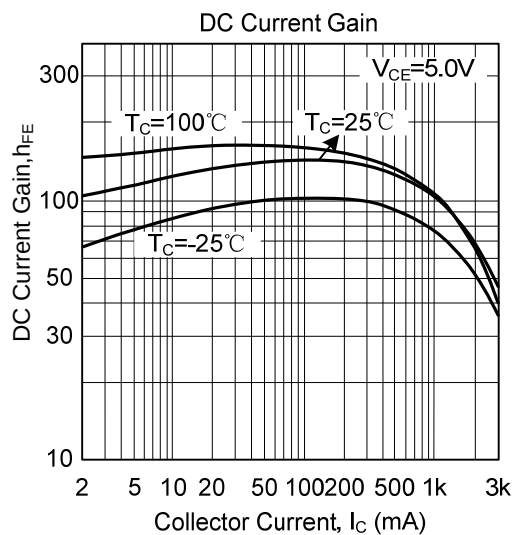
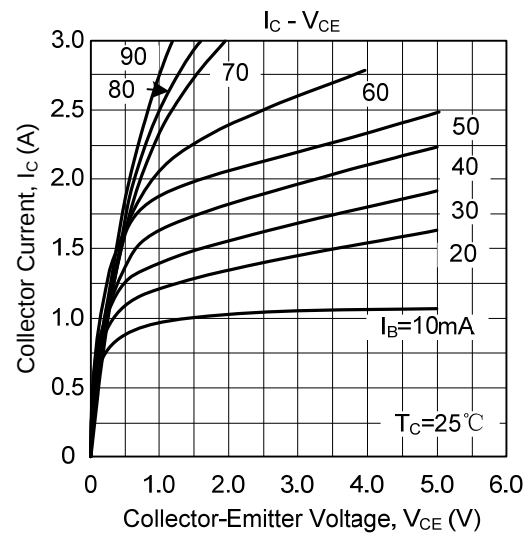
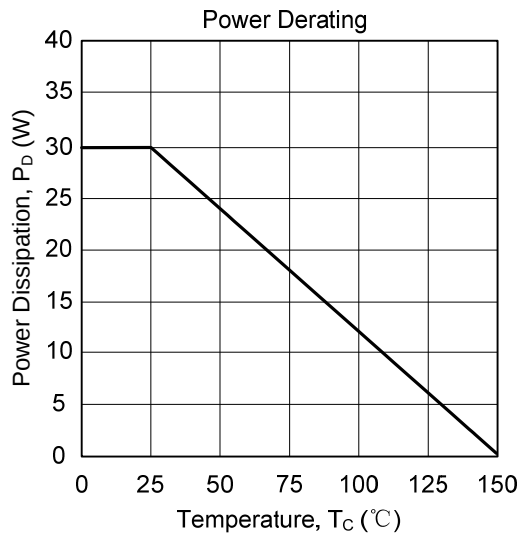
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 50\text{mA}$, $I_E = 0$	60			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = 60\text{V}$, $I_E = 0$			100	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 7\text{V}$, $I_C = 0$			100	μA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = 3\text{A}$, $I_B = 300\text{mA}$			1	V
Base-Emitter Saturation Voltage	$V_{BE(ON)}$	$V_{CE} = 5\text{V}$, $I_C = 500\text{mA}$			1	V
DC Current Gain	h_{FE}	$I_C = 500\text{mA}$, $V_{CE} = 5\text{V}$	100		200	
Current gain bandwidth product	f_T	$V_{CE} = 5\text{V}$, $I_C = 500\text{mA}$		3		MHZ

■ TYPICAL CHARACTERISTICS



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