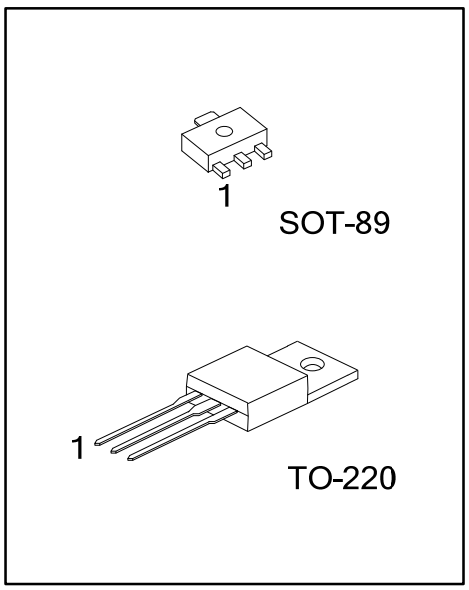
2SD880

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(Max.)(V_{CE}=5V, I_C=0.5A)
* Low Saturation Voltage: $V_{CE(SAT)}$=1.0V(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

■ MARKING

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

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

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

■ TYPICAL CHARACTERISTICS