

UNISONIC TECHNOLOGIES CO., LTD

2SD880

NPN SILICON TRANSISTOR

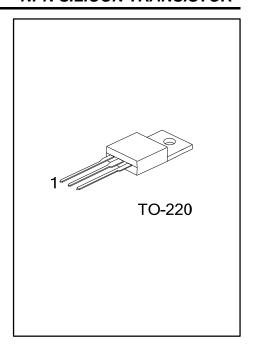
NPN EPITAXIAL TRANSISTOR

DESCRIPTION

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

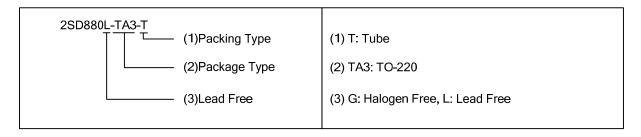
FEATURES

- * 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) * High Power Dissipation: P_C =30W (T_C =25°C)
- * Complementary to 2SB834



ORDERING INFORMATION

Ordering Number		Daalaaaa	Pin Assignment			De alsia a
Lead Free	Halogen Free	Package	1	2	3	Packing
2SD880L-TA3-T	2SD880G-TA3-T	TO-220	В	С	Е	Tube



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■ ABSOLUTE MAXIMUM RATINGS

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	Α	
Base Current	I _B	0.5	Α	
Power Dissipation (Derate at T _C >25°	PD PD	30	W	
T _A =25	т	1.5	W	
Junction Temperature $T_{C}=25$	T _J	30		
Storage Temperature	T _{STG}	-55~+150	°C	

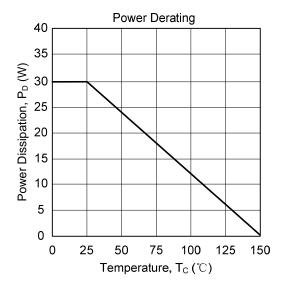
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

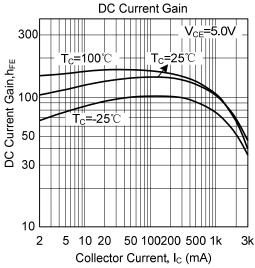
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

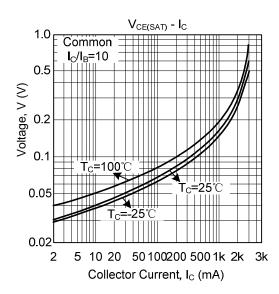
■ ELECTRICAL CHARACTERISTICS (T_A =25°C)

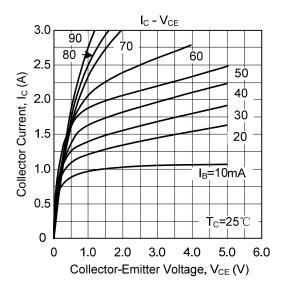
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=50$ mA, $I_E=0$	60			V
Collector Cut-Off Current	I _{CBO}	$V_{CB}=60V$, $I_{E}=0$			100	μΑ
Emitter Cut-Off Current	I _{EBO}	$V_{EB}=7V$, $I_{C}=0$			100	μΑ
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	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

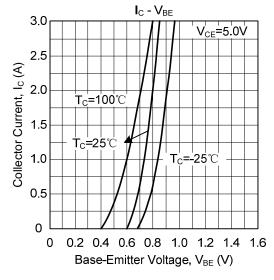
■ TYPICAL CHARACTERISTICS

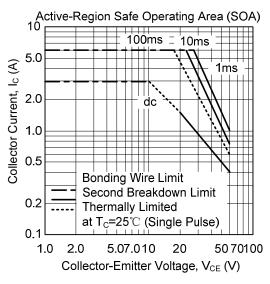












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