



2SD882

NPN SILICON TRANSISTOR

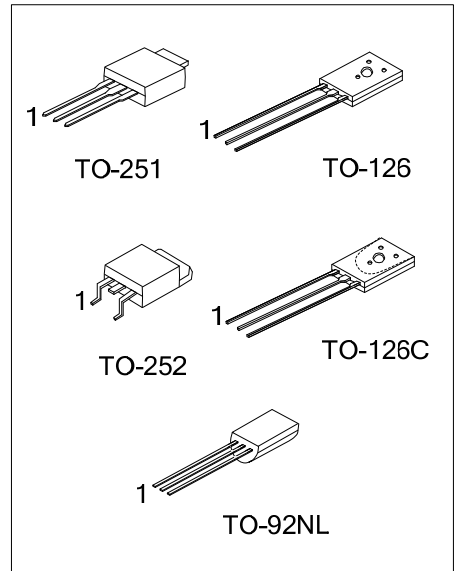
MEDIUM POWER LOW VOLTAGE TRANSISTOR

■ **FEATURES**

- * High current output up to 3A
- * Low saturation voltage
- * Complement to 2SB772

■ **APPLICATIONS**

- * Audio power amplifier
- * DC-DC convertor
- * Voltage regulator



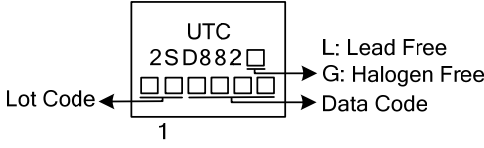
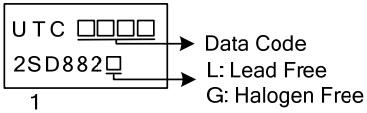
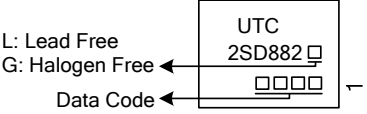
■ **ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SD882L-x-TM3-T	2SD882G-x-TM3-T	TO-251	B	C	E	Tube
2SD882L-x-TN3-R	2SD882G-x-TN3-R	TO-252	B	C	E	Tape Reel
2SD882L-x-T60-K	2SD882G-x-T60-K	TO-126	E	C	B	Bulk
2SD882L-x-T6C-K	2SD882G-x-T6C-K	TO-126C	E	C	B	Bulk
2SD882L-x-T6S-K	2SD882G-x-T6S-K	TO-126S	E	C	B	Bulk
2SD882L-x-T9N-B	2SD882G-x-T9N-B	TO-92NL	E	C	B	Tape Box
2SD882L-x-T9N-K	2SD882G-x-T9N-K	TO-92NL	E	C	B	Bulk

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

<p>2SD882L-x-T60-R</p> <p>(1)Packing Type (2)Package Type (3)Rank (4)Green Package</p>	<p>(1) B: Tape Box, K: Bulk, T: Tube, R: Tape Reel (2) T60: TO-126, T6C: TO-126C, T6S: TO-126S TM3: TO-251, TN3: TO-252, T9N: TO-92NL (3) x: refer to Classification of h_{FE2} (4) L: Lead Free, G: Halogen Free and Lead Free</p>
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MARKING

PACKAGE	MARKING
TO-251 TO-252	
TO-126 TO-126C TO-126S	
TO-92NL	

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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CB0}	40	V
Collector-Emitter Voltage		V_{CEO}	30	V
Emitter-Base Voltage		V_{EBO}	7	V
Collector Current	DC	I_C	3	A
	Pulse	I_{CP}	7	A
Base Current		I_B	0.6	A
Collector Dissipation ($T_A=25^\circ\text{C}$)	TO-251/TO-252	P_C	1	W
	TO-126/TO-126C			
	TO-126S		0.8	W
	TO-92NL			
Junction Temperature		T_J	+150	$^\circ\text{C}$
Storage Temperature		T_{STG}	-55 ~ +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-Base Breakdown Voltage	BV_{CB0}	$I_C=100\mu\text{A}$, $I_E=0$	40			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1\text{mA}$, $I_B=0$	30			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu\text{A}$, $I_C=0$	7			V
Collector Cut-off Current	I_{CBO}	$V_{CB}=30\text{V}$, $I_E=0$			1000	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=3\text{V}$, $I_C=0$			1000	nA
DC Current Gain (Note)	h_{FE1}	$V_{CE}=2\text{V}$, $I_C=20\text{mA}$	30	200		
	h_{FE2}	$V_{CE}=2\text{V}$, $I_C=1\text{A}$	100	150	400	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=2\text{A}$, $I_B=0.2\text{A}$		0.3	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=2\text{A}$, $I_B=0.2\text{A}$		1.0	2.0	V
Current Gain Bandwidth Product	f_T	$V_{CE}=5\text{V}$, $I_C=0.1\text{A}$		80		MHz
Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$		45		pF

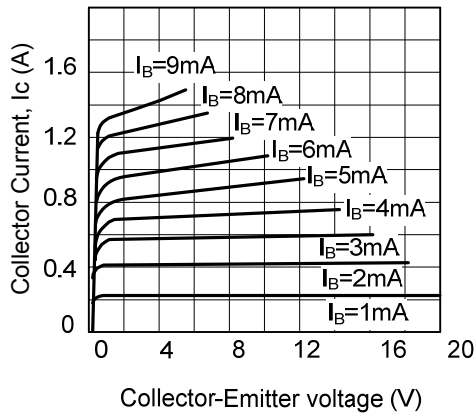
Note: Pulse test: $PW < 300\mu\text{s}$, Duty Cycle $< 2\%$

■ CLASSIFICATION OF h_{FE2}

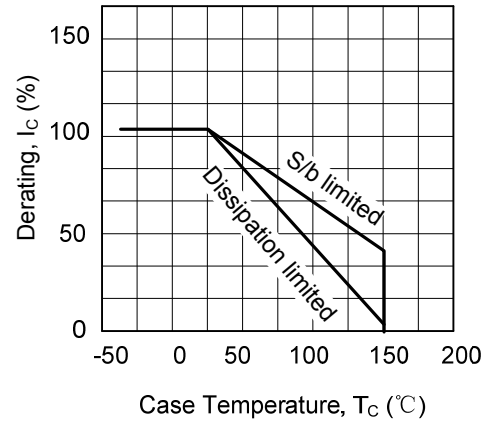
RANK	Q	P	E
RANGE	100-200	160-320	200-400

TYPICAL CHARACTERISTICS

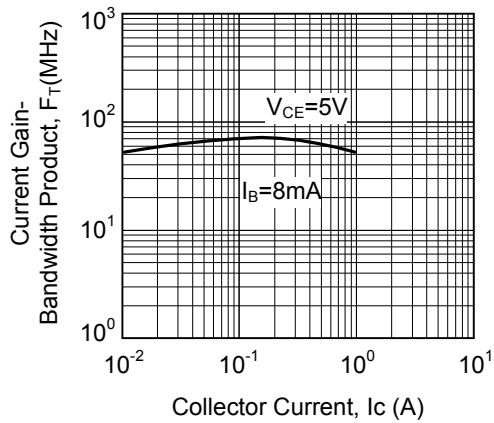
Static Characteristics



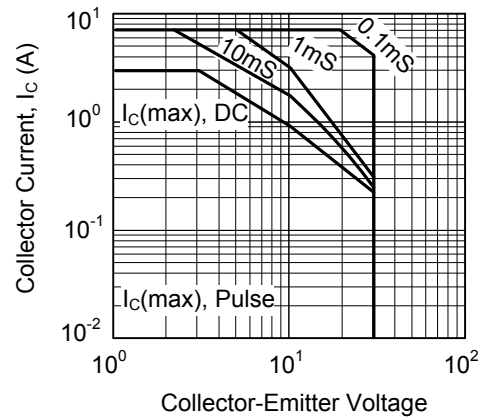
Derating Curve of Safe Operating Areas



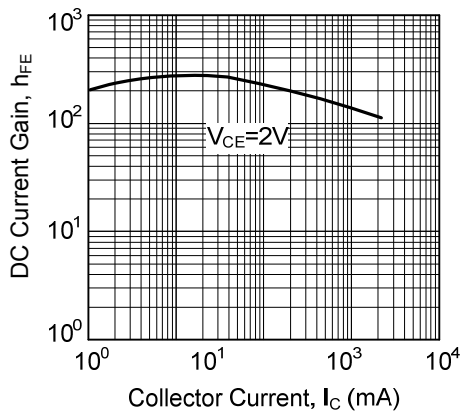
Current Gain-Bandwidth Product



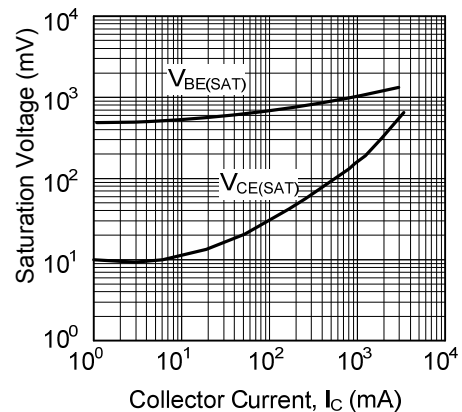
Safe Operating Area



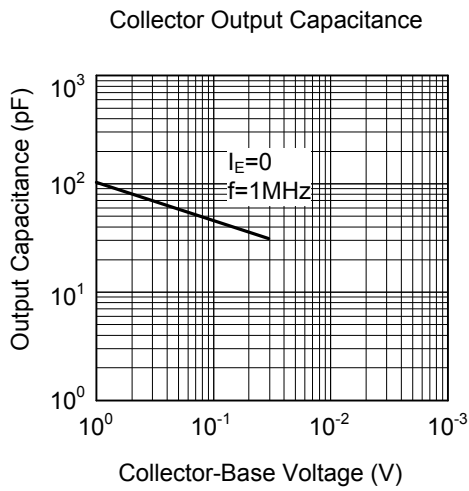
DC Current Gain



Saturation Voltage



■ TYPICAL CHARACTERISTICS(Cont.)



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