



2SD882

NPN SILICON TRANSISTOR

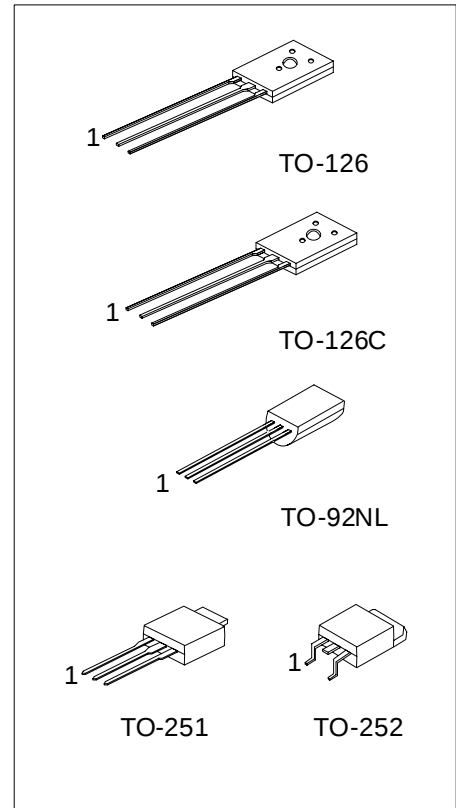
MEDIUM POWER LOW VOLTAGE TRANSISTOR

FEATURES

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

APPLICATIONS

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



*Pb-free plating product number: 2SD882L

ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
2SD882-x-T60-K	2SD882L-x-T60-K	TO-126	E	C	B	Bulk
2SD882-x-T6C-K	2SD882L-x-T6C-K	TO-126C	E	C	B	Bulk
2SD882-x-TM3-T	2SD882L-x-TM3-T	TO-251	B	C	E	Tube
2SD882-x-TN3-R	2SD882L-x-TN3-R	TO-252	B	C	E	Tape Reel
2SD882-x-TN3-T	2SD882L-x-TN3-T	TO-252	B	C	E	Tube
2SD882-x-T9N-B	2SD882L-x-T9N-B	TO-92NL	E	C	B	Tape Box
2SD882-x-T9N-K	2SD882L-x-T9N-K	TO-92NL	E	C	B	Bulk

2SD882L-x-T60-R (1)Packing Type (2)Package Type (3)Rank (4)Lead Plating		(1) B: Tape Box, K: Bulk, T: Tube, R: Tape Reel (2) T60: TO-126, T6C: TO-126C, TM3: TO-251, TN3: TO-252, T9N: TO-92NL (3) x: refer to Classification of h_{FE2} (4) L: Lead Free Plating, Blank: Pb/Sn
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■ ABSOLUTE MAXIMUM RATING (Ta=25 , unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	40	V
Collector-Emitter Voltage		V_{CEO}	30	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current	DC	I_C	3	A
	Pulse	I_{CP}	7	A
Base Current		I_B	0.6	A
Collector Dissipation (Ta=25)	TO-92NL	P_C	0.5	W
	TO-251/TO-252/ TO-126/TO-126C		1	W
Junction Temperature		T_J	+150	
Storage Temperature		T_{STG}	-55 ~ +150	

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 (Ta=25 , unless otherwise specified)

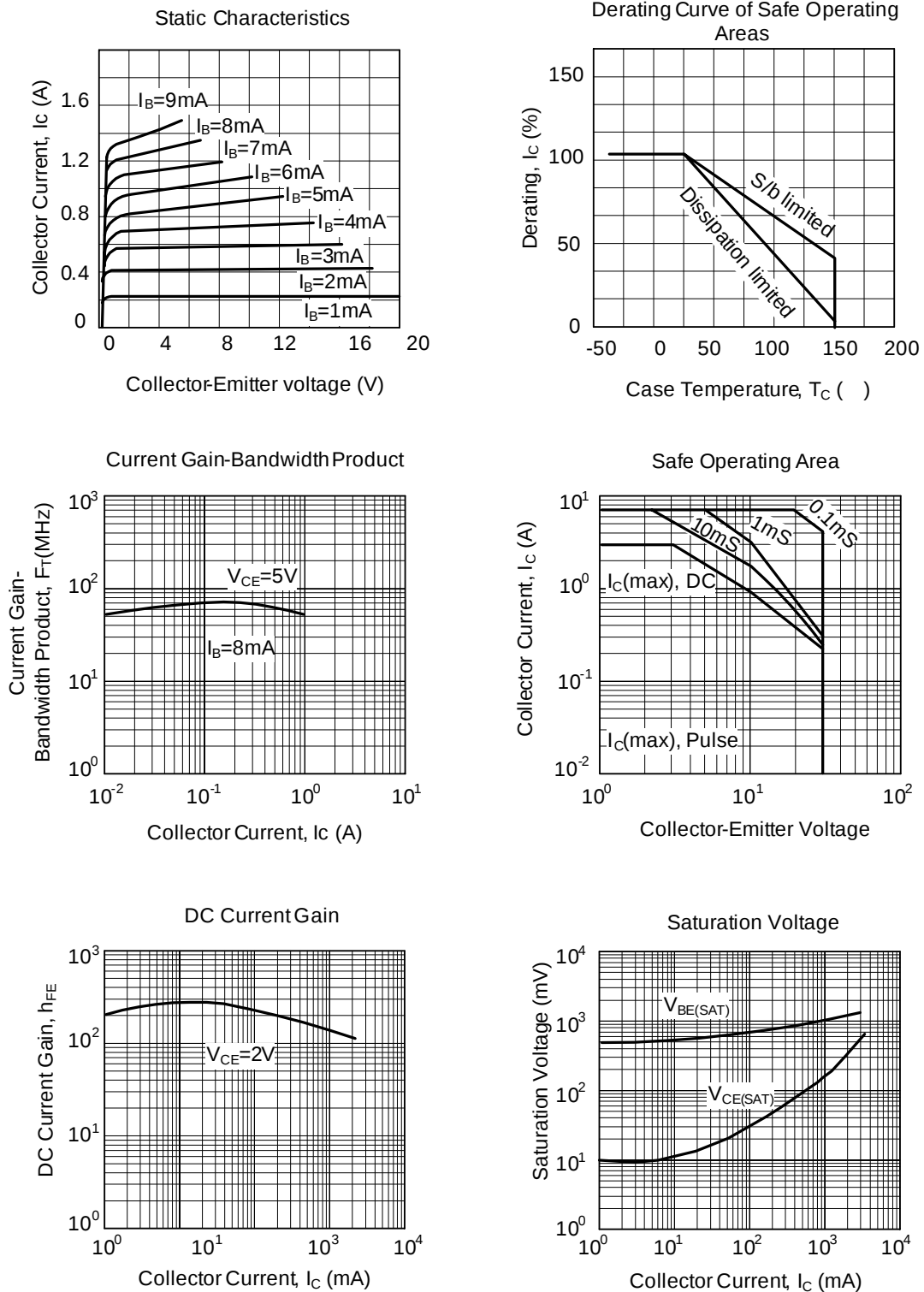
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=100\mu A, I_E=0$	40			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1mA, I_B=0$	30			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	5			V
Collector Cut-off Current	I_{CBO}	$V_{CB}=30V, I_E=0$			1000	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=3V, I_C=0$			1000	nA
DC Current Gain (Note 1)	h_{FE1}	$V_{CE}=2V, I_C=20mA$	30	200		
	h_{FE2}	$V_{CE}=2V, I_C=1A$	100	150	400	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=2A, I_B=0.2A$		0.3	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=2A, I_B=0.2A$		1.0	2.0	V
Current Gain Bandwidth Product	f_T	$V_{CE}=5V, I_C=0.1A$		80		MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		45		pF

Note 1: Pulse test: PW<300μs, Duty Cycle<2%

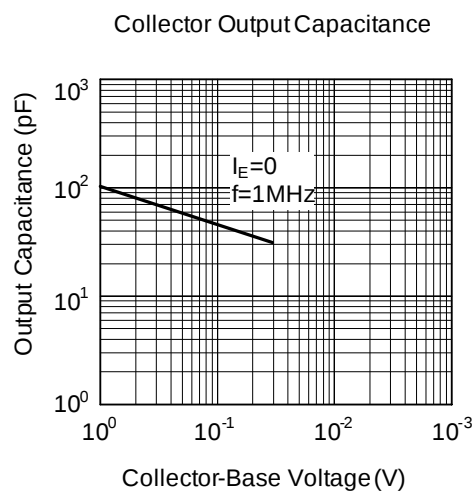
■ CLASSIFICATION OF h_{FE2}

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

■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS(Cont.)



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