



2SD882S

NPN SILICON TRANSISTOR

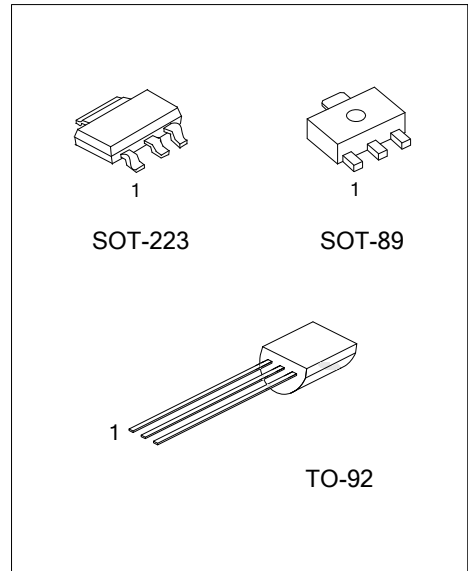
MEDIUM POWER LOW VOLTAGE TRANSISTOR

■ **FEATURES**

- * High current output up to 3A
- * Low saturation voltage
- * Complement to 2SB772S

■ **APPLICATIONS**

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



■ **ORDERING INFORMATION**

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
-	2SD882SG-x-AA3-R	SOT-223	B	C	E	Tape Reel
-	2SD882SG-x-AB3-R	SOT-89	B	C	E	Tape Reel
2SD882SL-x-T92-B	2SD882SG-x-T92-B	TO-92	E	C	B	Tape Box
2SD882SL-x-T92-K	2SD882SG-x-T92-K	TO-92	E	C	B	Bulk

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

<p>2SD882SG-x-AA3-R</p>	<p>(1) B: Tape Box, K: Bulk, R: Tape Reel (2) AA3: SOT-223, AB3: SOT-89, T92: TO-92 (3) x: refer to Classification of h_{FE2} (4) G: Halogen Free and Lead Free, L: Lead Free</p>
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■ **MARKING**

SOT-223	SOT-89	TO-92

■ ABSOLUTE MAXIMUM RATING (T_A=25°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
	Pulse	I _{CP}	7
Base Current	I _B	0.6	A
Power Dissipation	SOT-223	P _D	1
	SOT-89		0.5
	TO-92		0.75
Junction Temperature	T _J	+150	°C
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)

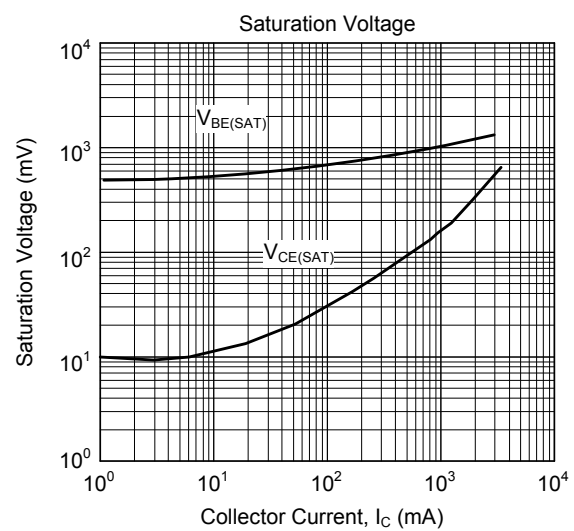
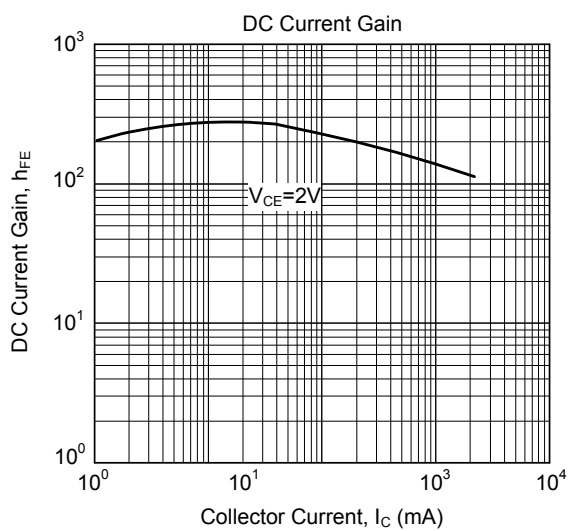
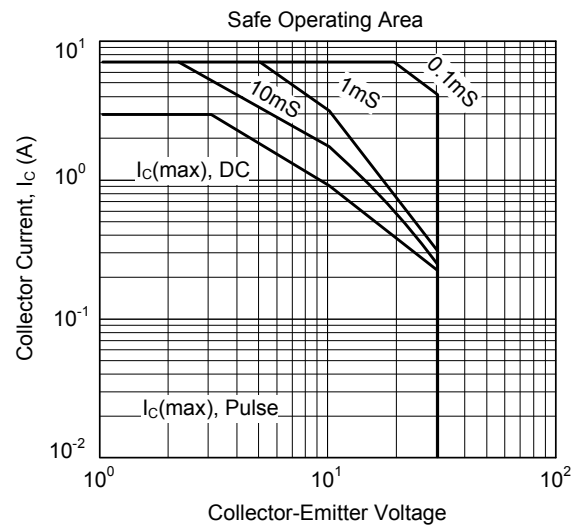
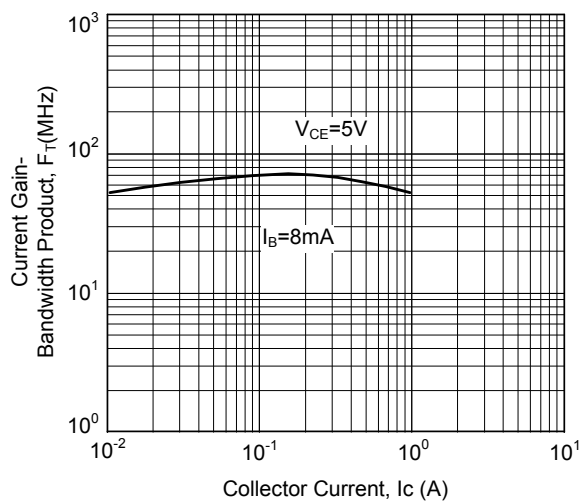
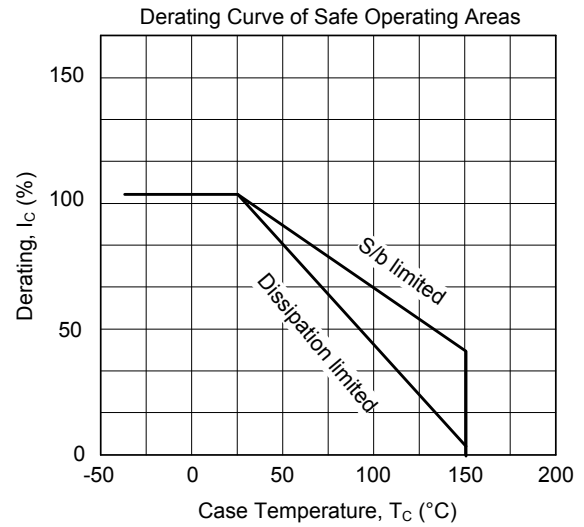
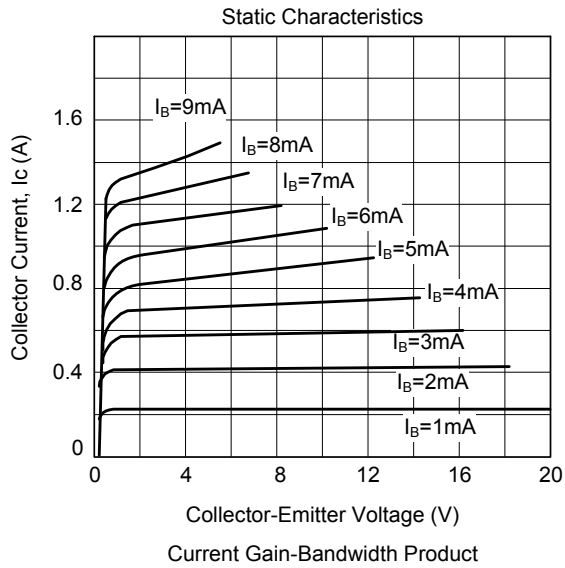
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CB0}	I _C =100μA, I _E =0	40			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =1mA, I _B =0	30			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =100μA, I _C =0	7			V
Collector Cut-off Current	I _{CB0}	V _{CB} =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: Pulse test: P_W<300μs, Duty Cycle<2%

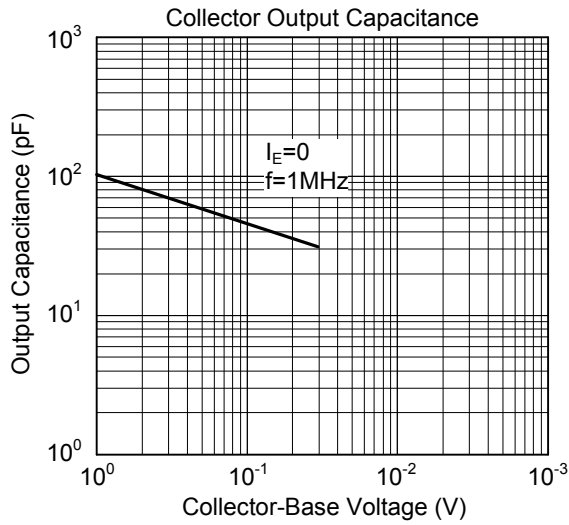
■ CLASSIFICATION OF h_{FE2}

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

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS(Cont.)



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