

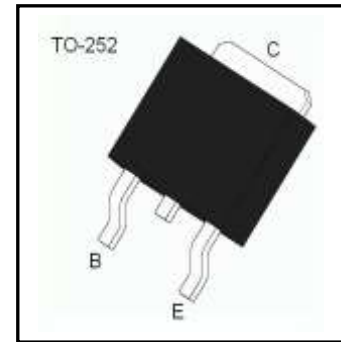
## TO-252 Plastic-Encapsulate NPN Transistors

### DESCRIPTION

The 2SD882 is a medium power low voltage transistor, designed for audio power amplifier, DC-DC converter and voltage regulator.

### FEATURES

- High current output up to 3A
- Complement to 2SB772



### Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$BV_{CBO}$	40	V
Collector-Emitter Voltage	$BV_{CEO}$	30	V
Emitter-Base Voltage	$BV_{EBO}$	6	V
Collector Current	$I_C$	3	A
Collector Power Dissipation	$P_C$	1.25	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~150	°C

### Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Value			Unit
			Min	Typ	Max	
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	$BV_{EBO}$	$I_E = 100\mu A, I_C = 0$	6			V
Collector -base cut-off current	$I_{CBO}$	$V_{CB} = 40V, I_E = 0$	-		1	$\mu A$
Collector- emitter cut-off current	$I_{CEO}$	$V_{CE} = 30V, I_E = 0$			10	$\mu A$
Emitter- base cut-off current	$I_{EBO}$	$V_{EB} = 3V, I_C = 0$			1	$\mu A$
DC current gain*	$h_{FE}$	$V_{CE} = 2V, I_C = 20mA$	30			
		$V_{CE} = 2V, I_C = 1.0A$	60		400	
Collector-emitter saturation voltage*	$V_{CE(sat)}$	$I_C = 2.0A, I_B = 0.2A$			0.5	V
Base -emitter saturation voltage*	$V_{BE(sat)}$	$I_C = 2.0A, I_B = 0.2A$			1.5	V
Transition frequency	$f_T$	$V_{CE} = 5V, I_B = 0.1A$	50			MHz

Note \*Pulse Test:  $PW \leq 350\mu s$ , Duty Cycle  $\leq 2\%$

### hFE Classification

Classification	R	Q	P	E
$h_{FE}$	60-120	100-200	160-320	200-400

## Typical Characteristics

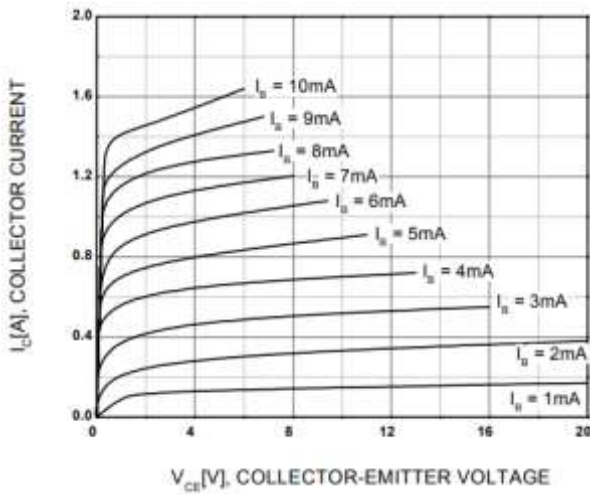


Figure 1. Static Characteristic

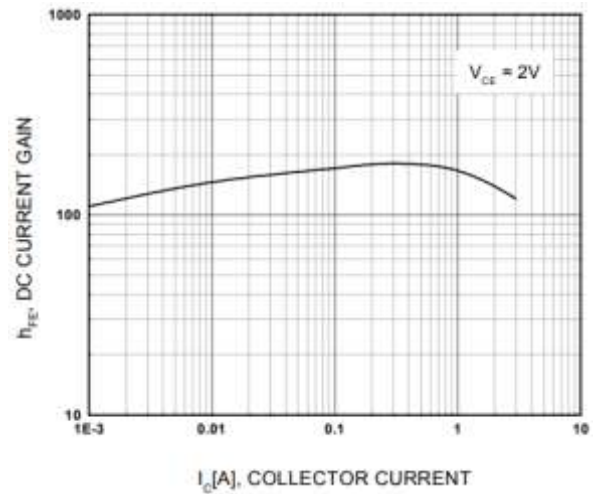


Figure 2. DC current Gain

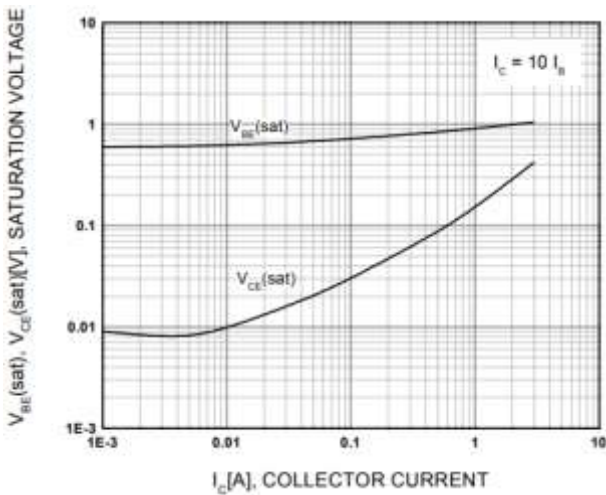


Figure 3. Base-Emitter On Voltage

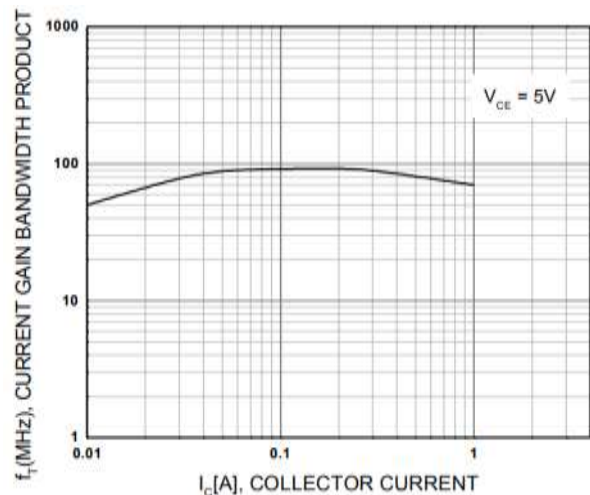


Figure 4. Current Gain Bandwidth Product

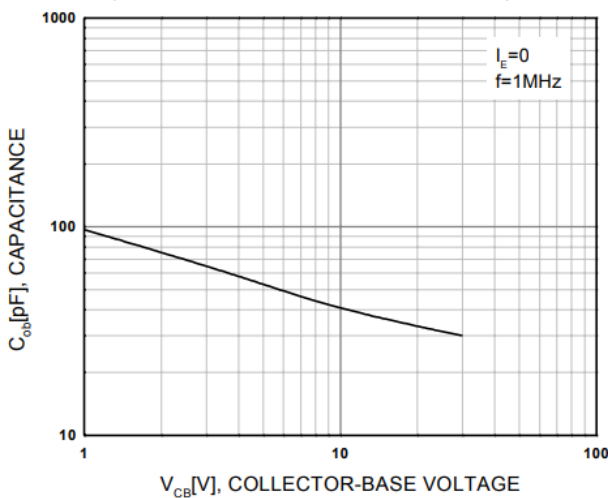
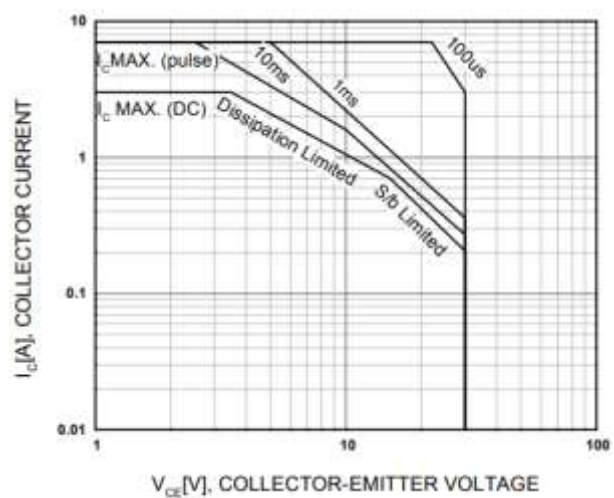
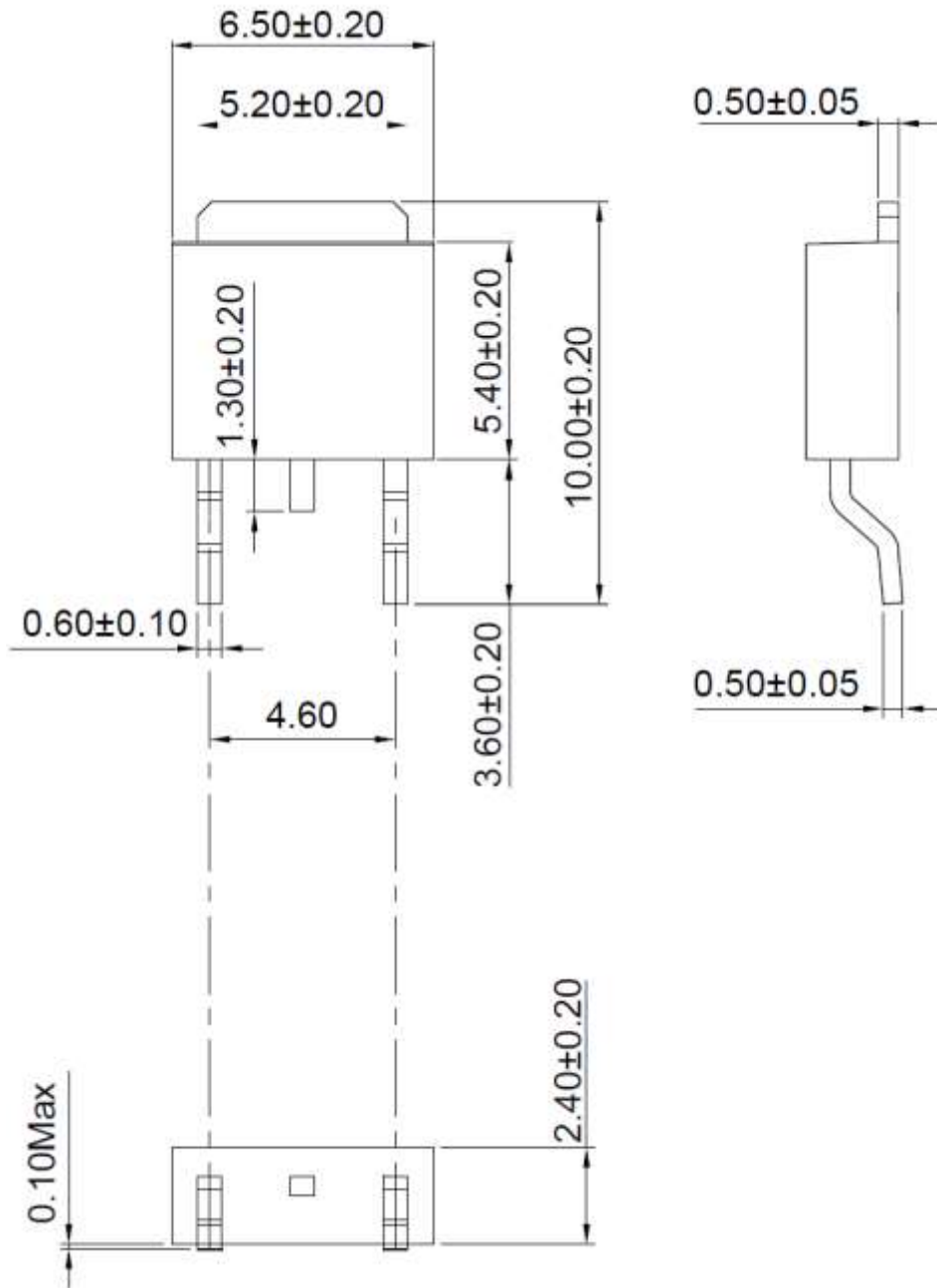


Figure 5. Collector Output Capacitance



**Package Dimensions (Unit:mm)**


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