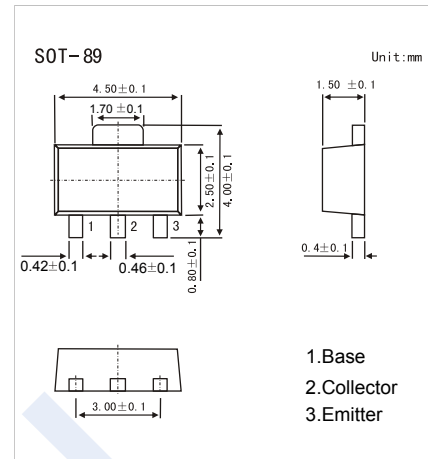


NPN Transistors

2SC2882-HF

■ Features

- Suitable for driver of 30 to 35 watts audio amplifier
- Small flat package
- $P_c = 1.0$ to 2.0 W (mounted on a ceramic substrate)
- Complementary to 2SA1202-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	80	V
Collector - Emitter Voltage	V_{CE0}	80	
Emitter - Base Voltage	V_{EB0}	5	
Collector Current - Continuous	I_C	400	mA
Base Current	I_B	80	
Collector Power Dissipation (Note.1)	P_C	500 1000	mW
Junction Temperature	T_J	150	
Storage Temperature Range	T_{stg}	-55 to 150	

Note.1: Mounted on a ceramic substrate ($250\text{ mm}^2 \times 0.8\text{ t}$)

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = 1\text{ mA}$, $I_E = 0$	80			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = 10\text{ mA}$, $I_B = 0$	80			
Emitter - base breakdown voltage	V_{EB0}	$I_E = 1\text{ mA}$, $I_C = 0$	5			
Collector-base cut-off current	I_{CB0}	$V_{CB} = 80\text{ V}$, $I_E = 0$			0.1	μA
Emitter cut-off current	I_{EB0}	$V_{EB} = 5\text{ V}$, $I_C = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 200\text{ mA}$, $I_B = 20\text{ mA}$			0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 200\text{ mA}$, $I_B = 20\text{ mA}$			1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = 2\text{ V}$, $I_C = 5\text{ mA}$	0.55		0.8	
DC current gain	$h_{FE(1)}$	$V_{CE} = 2\text{ V}$, $I_C = 50\text{ mA}$	70		240	
	$h_{FE(2)}$	$V_{CE} = 2\text{ V}$, $I_C = 200\text{ mA}$	40			
Collector output capacitance	C_{ob}	$V_{CB} = 10\text{ V}$, $I_E = 0$, $f = 1\text{ MHz}$		10		pF
Transition frequency	f_T	$V_{CE} = 10\text{ V}$, $I_C = 10\text{ mA}$		100		MHz

■ Classification of $h_{FE(1)}$

Type	2SC2882-O-HF	2SC2882-Y-HF
Range	70-140	120-240
Marking	EO* _F	EY* _F

NPN Transistors

2SC2882-HF

Typical Characteristics

