

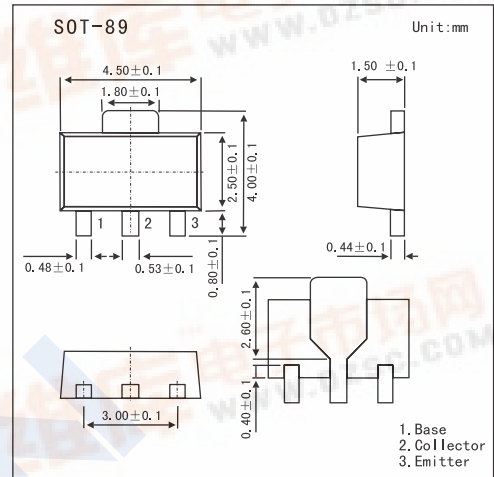
SMD Type Transistors

Power Amplifier Applications

2SC2882

Features

- Suitable for Driver of 30 to 35 Watts Audio Amplifier
- Small Flat Package
- $P_c = 1$ to 2W (mounted on ceramic substrate)
- Complementary to 2SA1202



Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	80	V
Collector-Emitter Voltage	V_{CE0}	80	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_c	400	mA
Base Current	I_B	80	mA
Collector Power Dissipation	P_c	500	mW
	P_c^*	1000	
Junction temperature	T_j	150	$^\circ C$
Storage temperature Range	T_{stg}	-55 to +150	$^\circ C$

* Mounted on a ceramic substrate (250 mm² x 0.8 t)

Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB} = 80V, I_E = 0$			0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			0.1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10mA, I_B = 0$	80			V
DC Current Gain	h_{FE}	$I_E = 2mA, I_C = 50mA$	70		240	
		$V_{CE} = 2V, I_C = 200mA$	40			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 200mA, I_B = 20mA$			0.4	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = 2V, I_C = 5mA$	0.55		0.8	V
Transition Frequency	f_T	$V_{CE} = 10V, I_C = 10mA$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		14		pF



2SC2882

hFE Classification

Marking	E	
Rank	O	Y
hFE	70 ~ 140	120 ~ 240

Electrical Characteristics Curves

