FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

SA1284 is a silicon PNP epitaxial type transistor designed for high voltage application.

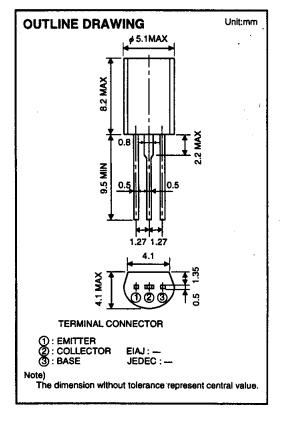
Complementary with 2SC3244.

FEATURE

- ●High voltage VcEo=-100V
- ●High peak collector current lcm=-800mA
- High gain band width product fr=130MHz(typ).
- High collector dissipation Pc=900mW

APPLICATION

For 20 to 40W amp complimentary drive, relay drive, power supply application.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	-100	V
VEBO	Emitter to Base voltage	-5	V
VCEO	Collector to Emitter voltage	-100	V
ICM	Peak Collector current	-800	mA
1c	Collector current	-500	mA
Pc	Collector dissipation (Ta=25°C)	900	mW
Ti	Junction temperature	+150	°C.
Tstg	Storage temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

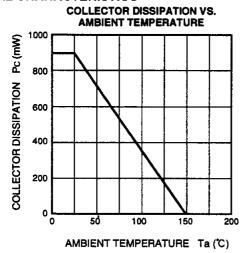
Symbol	Parameter	Test conditions		Limits		
		l est conditions		Тур	Max	Unit
V(BR)CBO	C to B break down voltage	ic = -10 μA, iε=0	-100			٧
V(BR)EBO	E to B break down voltage	iε = -10 μA, IC=0	-5			V
V(BR)CEO	C to E break down voltage	Ic = -1mA, RBE= [∞]	-100			V
Ісво	Collector cut off current	VcB = -50 V, IE=0			-0.5	μА
IEBO	Emitter cut off current	VEB = -2V, IC=0			-0.5	μА
hfe *	DC forward current gain	VcE = -10V, lc=-10mA	55		300	_
VCE(sat)	C to E saturation voltage	ic = -150mA, lb= -15mA		-0.15	-0.5	V
fr	Gain band width product	VcE= -10V, IE= 10mA		130		MHz
Cob	Collector output capacitance	VcB= -10V, iE= 0, f=1MHz		11		pF

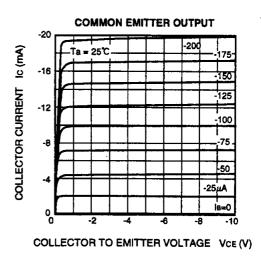
^{* :} It shows he classification in right table.

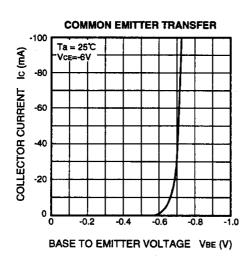
Item	С	D	E
hFE	55 to 110	90 to 180	150 to 300

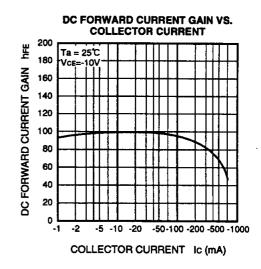
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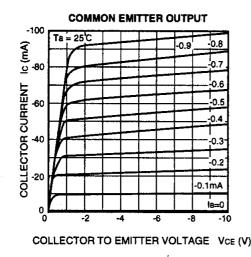
TYPICAL CHARACTERISTICS

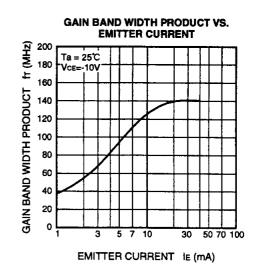






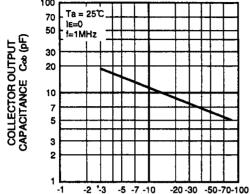






FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE 70 le=0 f=1MHz





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