(SMALL-SIGNAL TRANSISTOR)

2SA1285, 2SA1285A

FOR PRE-DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

2SA1285, 2SA1285A is a silicon PNP epitaxial type transistor. Designed with high voltage, high hre, high fτ, small Cob and excellent hre lineary.

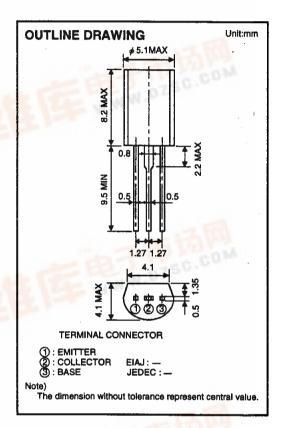
Complementary with 2SC3245, 2SC3245A.

FEATURE

- ●High voltage VcEo=120, 150V
- ●High ft fr=200MHz, low Cob Cob=3.5pF typ
- ●High hre hre=150 to 800
- ●High collector dissipation Pc=900mW

APPLICATION

Pre-drive level of output 40 to 80W main amp. End level of tone control amp, equalizer amp.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ra	11-4	
		2SA1285	2SA1285A	Unit
Vсво	Collector to Base voltage	-120	-150	V
VEBO	Emitter to Base voltage	-5	-5	V
VCEO	Collector to Emitter voltage	-120	-150	
Ic	Collector current	-100		mA
Pc	Collector dissipation	900		mW
Ti	Junction temperature	+150		ూ
Tstg	Storage temperature	-55 to +150		Ç

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits						
			2SA1285		2SA1285A		Unit		
			Min	Тур	Max	Min	Тур	Max	1
V(BR)CBO	C to B break down voltage	IC = -10 μA, IE= 0	-120			-150			V
V(BR)EBO	E to B break down voltage	IE = -10 μA, IC=0	-5			-5			٧
V(BR)CEO	C to E break down voltage	ic = -1mA, RsE=∞	-120			-150			V
Ісво	Collector cut off current	VcB = -100 V, IE=0			-0.1			-0.1	μΑ
IEBO	Emitter cut off current	VEB = -4V, IC=0			-0.1			-0.1	μΑ
hFE +	DC forward current gain	Vce= -10V, Ic= -10mA	150		800	150		500	
VCE(sat)	C to E saturation voltage	Ic = -50mA, IB= -2.5mA		-0.17	-0.6		-0.17	-0.6	V
fr	Gain band width product	VCE= -10V, IE= 10mA		200			200		MHz
Cob	Collector output capacitance	VcB= -10V, IE= 0, f=1MHz		3.5			3.5		pF

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

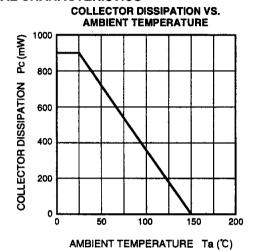
Item	E	F	G		
hFE	150 to 300	250 to 500	400 to 800		

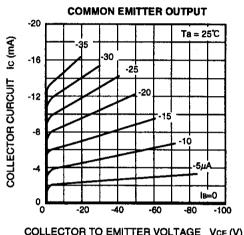
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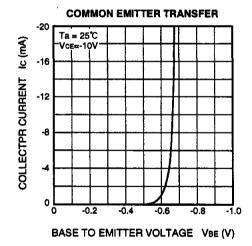
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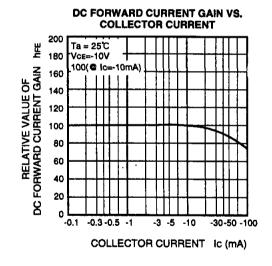
TYPICAL CHARACTERISTICS

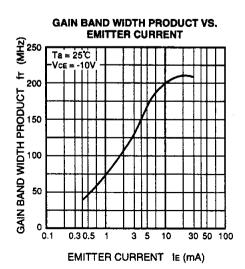


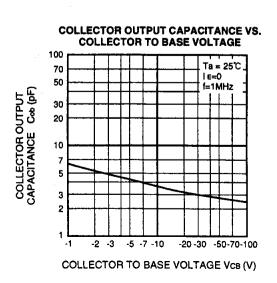


COLLECTOR TO EMITTER VOLTAGE VCE (V)





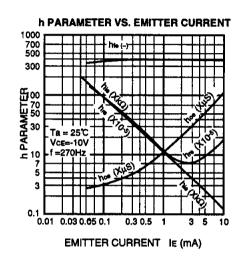


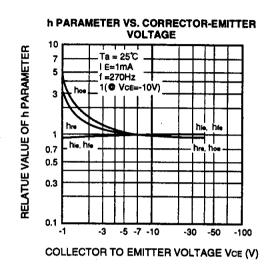


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COMMON EMITTER h PARAMETER (TYPICAL VALUE)

Symbol	Parameter	Test Conditions	Limits	Unit
hie	Closed loop small signal input impedance	Ta=25℃	10.8	kΩ
hre	Open loop small signal reverse voltage amplification factor	VCE=-10V	1.16	×10-4
hte	Closed loop small signal forward current amplification factor	IE=1mA	400	
hoe	Open loop small signal output admittance	f=270Hz	11.2	μS



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