ISA1284AS1

FOR LOW FREQUENCY POWOR AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

ISA1284AS1 is a silicon PNP epitaxial type transistor designed for high voltage application.

Complementary with ISC3244AS1.

FEATURE

- High voltage V_{CEO}=-100V
- lacktriangle High peak collector current. I_{CM} =-800mA
- High gain band width product. fT=130MHz (typ)
- High collector dissipation. P_c=600mW

APPLICATION

For 20~40W amp complementary drive, relay drive, power supply application.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit	
Vcво	V _{CBO} Collector to Base voltage		٧	
VEBO	Emitter to Base voltage	-5	٧	
Vceo	Collector to Emitter voltage	-100	٧	
I_{C}	Collector current	-500	mA	
I _{CM}	Peak collector current	-800	mA	
P _c	Collector dissipation	600	mW	
T_{j}	Junction temperature	+150	ပွ	
T_{stg}	Storage temperature	−55 ~ +150	လူ	

OUTLINE DRAWING 4.0 OF 1 JEITA: JEDEC: TERMINAL CONNECTER ①: EMITTER ②: COLLECTOR ③: BASE

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Б	Parameter	T		Limits		
Parameter		Test conditions	Min	Тур	Max	Unit
V(BR)cBo	C to B break down voltage	$I_{\rm C}$ = -10 μ A , $I_{\rm E}$ =0mA	-100	-	-	٧
V(BR)EBO	E to B break down voltage	$I_{\rm E}$ = -10 μ A , $I_{\rm C}$ =0mA	-5	-	-	٧
V(BR)ceo	C to E break down voltage	I _C = −1mA , RBE= ∞	-100	-	-	٧
ICBO	Collector cut off current	$V_{CB} = -50V$, $I_E = 0mA$	-	-	-0.5	μΑ
ĪEBO	Emitter cut off current	$V_{EB} = -2V$, I $_{C} = 0mA$	-	-	-0.5	μΑ
hFE※	DC forward current gain	$V_{CE} = -10V$, $I_{C} = -10mA$	55	-	300	_
VCE(sat)	C to E Saturation Voltage	I _c = -150mA , I _B = -15mA	-	-0.15	-0.5	٧
fT	Gain band width product	V _{CE} = -10V , I _E = 10mA	-	130	-	MHz
Cob	Collector output capacitance	V _{CB} = -10V , I _E = 0mA,f=1MHz	_	11	-	pF

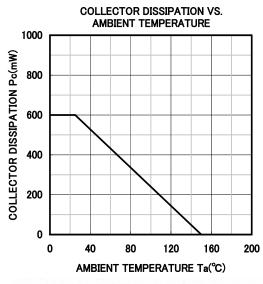
※) It shows hFE classification in right table.

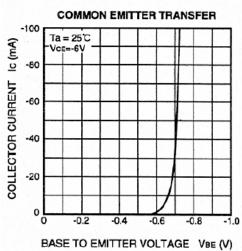
Item	С	D	Е	
hFE item	50~110	90~180	150~300	

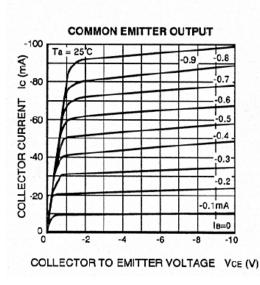
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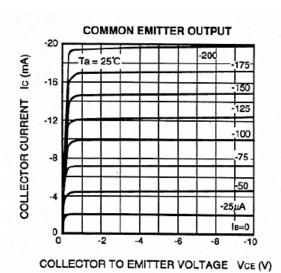
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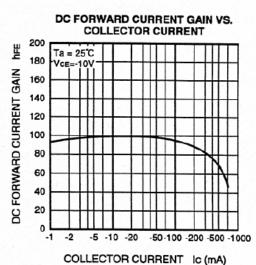
TYPICAL CHARACTERISTICS

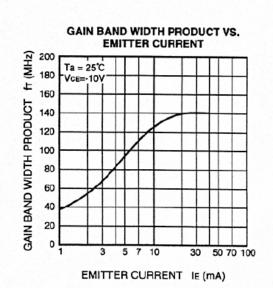








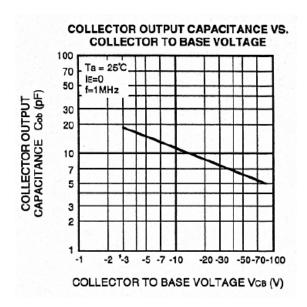




⟨SMALL-SIGNAL TRANSISTOR⟩

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6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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