ISA1399AS1

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

ISA1399AS1 is a silicon PNP epitaxial type transistor designed with High collector current, high voltage.

Complementary with ISA3581AS1.

FEATURE

- lacktriangle High collector current. I_{CM} =600mA
- High gain band width product. fT=150MHz typ
- ullet High V_{CEO} . V_{CEO} =-50V
- ●Excellent linearity of DC forward current gain.

APPLICATION

For switching, small type motor drive application.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit	
Vcво	Collector to Base voltage	-55	٧	
VEBO	Emitter to Base voltage	-4	V	
Vceo	Collector to Emitter voltage	-50	>	
I_{C}	Collector current	-400	mA	
I _{CM}	Peak collector current	-600	mA	
Pc	Collector dissipation	600	mW	
T_{j}	Junction temperature	+150	ပ္	
T_{stg}	T _{stg} Storage temperature		°C	

JEITA: JEDEC: TERMINAL CONNECTER ①: EMITTER ②: COLLECTOR ③: BASE

ELECTRICAL CHARACTERISTICS(Ta=25°C)

Parameter	Parameter	Test conditions	Limits		1.154	
			Min	Тур	Max	Unit
V(BR)cB0	C to B break down voltage	$I_{C} = -10 \mu A$, $I_{E} = 0$	-55	-	-	٧
V(BR)EBO	E to B break down voltage	$I_E = -10 \mu$ A , $I_C = 0$	-4	-	-	٧
V(BR)ceo	C to E break down voltage	I _C = −100 μ A , RBE= ∞	-50	-	-	٧
ICBO	Collector cut off current	V $_{\text{CB}}$ = -25V , I $_{\text{E}}$ = 0mA	-	-	-1	μΑ
ĪEBO	Emitter cut off current	$V_{EB} = -2V$, $I_{C} = 0mA$	-	-	-1	μΑ
hFE※	DC forward current gain	$V_{CE} = -4V$, $I_{C} = -100$ mA	90	-	500	-
VCE(sat)	C to E Saturation Voltage	I $_{\text{C}}$ = -200mA , I $_{\text{B}}$ = -10mA	-	-0.17	-0.5	٧
fT	Gain band width product	$V_{CE} = -6V$, $I_{E} = 10mA$	_	150	-	MHz

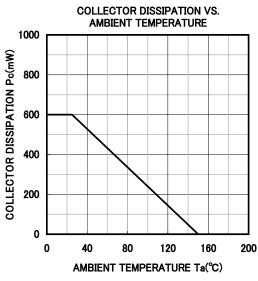
※) It shows hFE classification in right table.

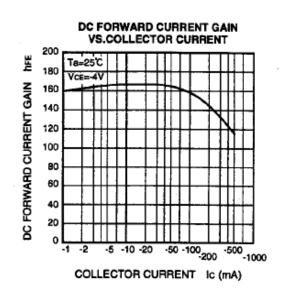
Item	D	E	F
hFE item	90~180	150~300	250~500

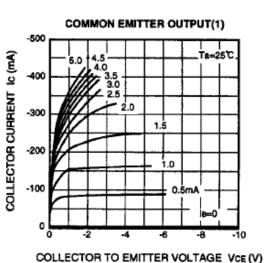
ISA1399AS1

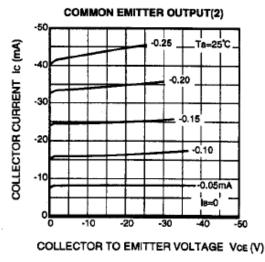
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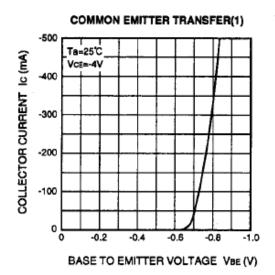
TYPICAL CHARACTERISTICS

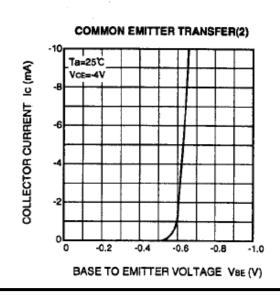














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