INA1001AC1

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA1001AC1 is a silicon PNP epitaxial type transistor. It is designed with high collector current and small $V_{\text{CE(sat)}}$.

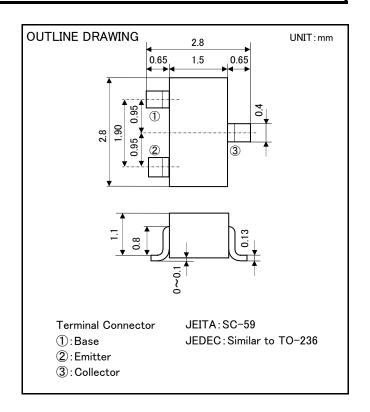
FEATURE

- Super mini package for easy mounting
- High collector current(I_c =-500mA)
- Low collector saturation voltage
- $(V_{CE(sat)} < -0.3V_{max}; I_{C} = -100 mA, I_{B} = -10 mA)$

•High voltage V_{CEO} =-80V

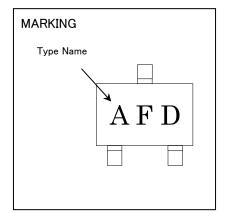
APPLICATION

Power supply, Relay drive



MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	METER RATING	
V _{CBO}	Collector to Base voltage	-80	٧
V_{EBO}	Emitter to Base voltage	-4	٧
V _{CEO}	Collector to Emitter voltage	-80	٧
I c	Collector current	-500	mA
P _c	Collector dissipation(Ta=25°C)	200	mW
T _j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C



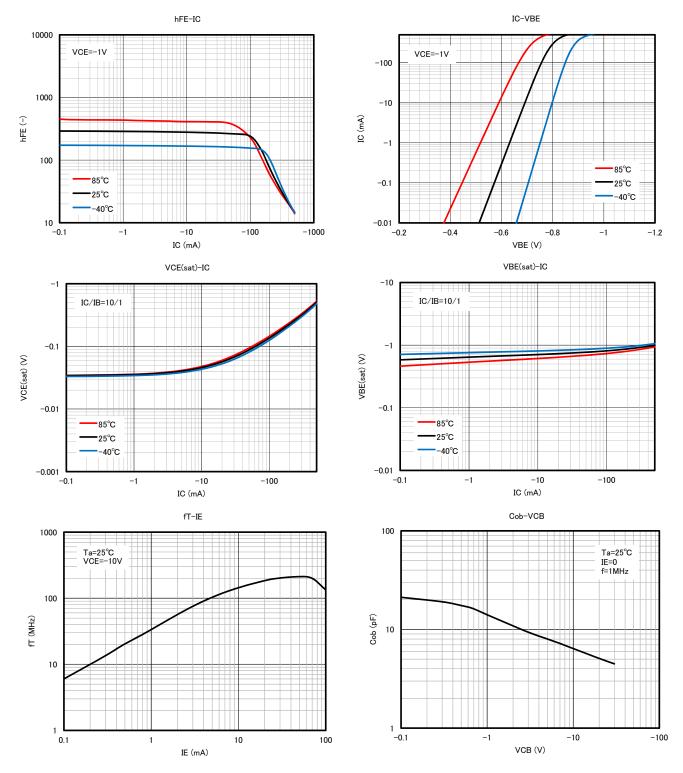
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			LINIT
			MIN	TYP	MAX	UNIT
V _{(BR)CBO}	C to B breakdown voltage	$I_{c}=-100 \mu A, I_{E}=0mA$	-80	_	_	V
V _{(BR)EBO}	E to B breakdown voltage	$I_{E}=-100 \mu A, I_{C}=0mA$	-4	_	-	V
V _{(BR)CEO}	C to E breakdown voltage	I _C =-1mA, I _B =0mA	-80	_	_	V
I _{CBO}	Collector cut off current	V_{CB} =-80V, I _E =0mA	_	-	-0.1	μΑ
\mathbf{I}_{EBO}	Emitter cut off current	V _{EB} =-4V, I _c =0mA	_	_	-0.1	μΑ
h _{FE1}	DC forward current gain1	V _{CE} =-1V, I _C =-10mA	95	_	_	_
h _{FE2}	DC forward current gain2	V _{CE} =-1V, I _C =-100mA	95	_	_	_
$V_{CE(sat)}$	C to E saturation voltage	I _C =-100mA, I _B =-10mA	_	-	-0.3	V
f _⊤	Gain bandwidth product	V _{CE} =-1V, I _E =100mA, f=100MHz	50	_	_	MHz

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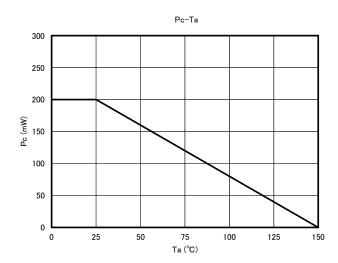
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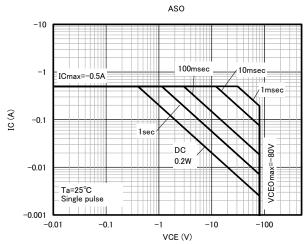
TYPICAL CHARACTERISTICS



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FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE





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