INA5002AP1

For low frequency power amplify Silicon PNP Epitaxial

DESCRIPTION

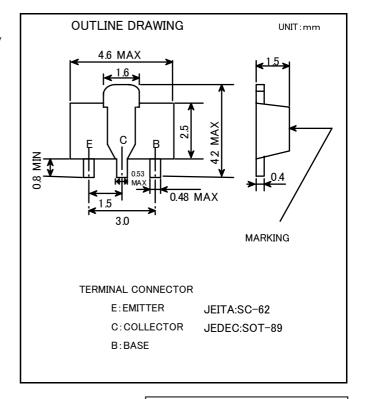
INA5002AP1 is a silicon PNP epitaxial transistor designed for relay drive or Power supply application.

FEATURE

- Small package for easy mounting.
- ●High voltage VCEO=-60V
- High collector current Ic=-3A
- $\bullet \text{Low VCE(sat) VCE(sat)=-0.6V max} (@I_c = -3\text{A} / I_s = -300\text{mA})$
- High collector dissipation Pc=500mW

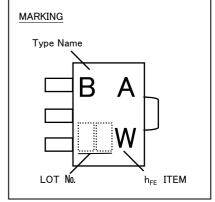
APPLICATION

DC·DC converter, Relay drive, Motor drive etc



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V _{CBO}	Collector to Base voltage	-80	٧	
V _{EBO}	Emitter to Base voltage	-6	٧	
V _{CEO}	Collector to Emitter voltage	-60	٧	
I _C	Collector current	-3	Α	
I _{CM}	Peak Collector current	-6		
P _c	Collector dissipation(Ta=25°C)	500	mW	
T _j	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55 ~ +150	°C	



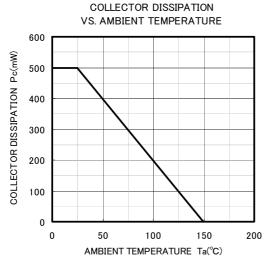
ELECTRICAL CHARACTERISTICS (Ta=25°C)

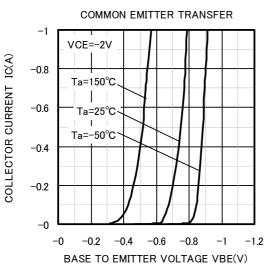
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			
			MIN	TYP	MAX	UNIT
V _{(BR)CBO}	C to B break down voltage	I _C =-100 μ A, I _E =0mA	-80	-	-	٧
V _{(BR)EBO}	E to B break down voltage	$I_{E}=-100 \mu A, I_{C}=0mA$	-6	-	-	٧
V _{(BR)CEO}	C to E break down voltage	I _C =−1mA, R _{BE} =∞	-60	-	-	٧
I _{CBO}	Collector cut off current	V _{CB} =-60V, I _E =0mA	-	-	-1.0	μΑ
І ЕВО	Emitter cut off current	V _{EB} =-4V, I c=0mA	-	-	-1.0	μΑ
hfE	DC forward current gain	Vce=-2V, Ic=-0.5A	100	-	300	-
V _{CE(sat)}	C to E saturation voltage	Ic=-3A, I _B =-300mA	-	-	-0.5	٧
fτ	Gain band width product	VcE=-5V, IE=100mA	-	200	-	MHz
Cob	Collector output capacitance	V _{CB} =-10V, I _E =0mA, f=1MHz	-	25	-	pF

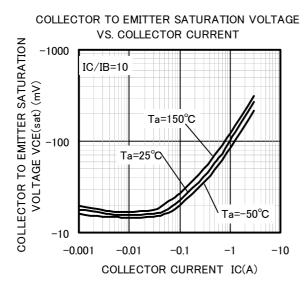
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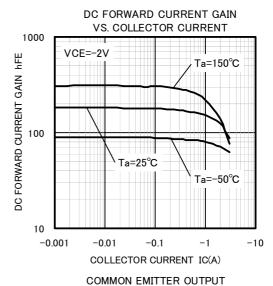
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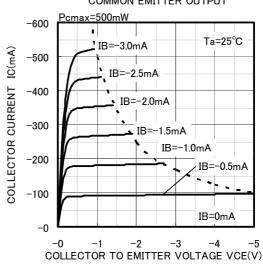
TYPICIAL CHARACTERISTICS

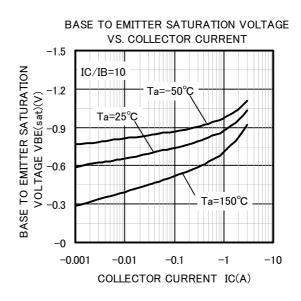






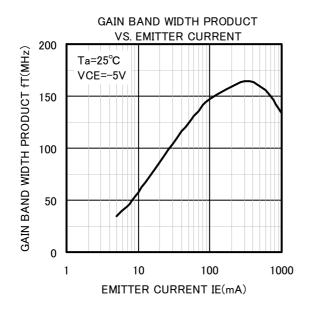


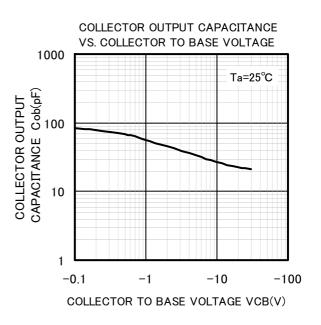


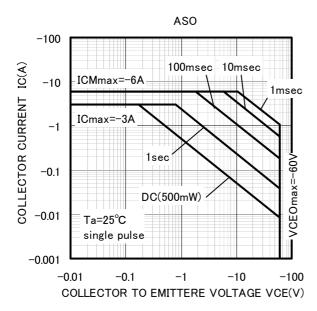


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