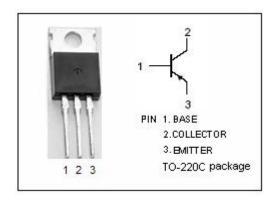


isc Silicon PNP Power Transistor

2SA1006A

DESCRIPTION

- Good Linearity of hFE
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -200V(Min)
- · Wide Area of Safe Operation
- · Complement to Type 2SC2336A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

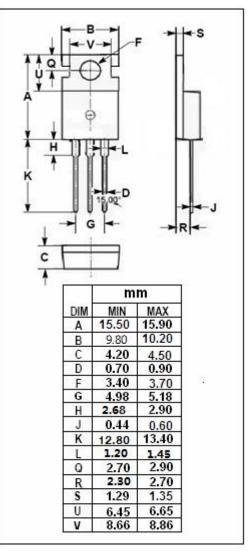


APPLICATIONS

- Adudio frequency power amplifier
- · High frequency power amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-200	V	
V _{CEO}	Collector-Emitter Voltage	-200	V	
V _{EBO}	Emitter-Base Voltage	-5.0	V	
lc	Collector Current-Continuous	-1.5	Α	
I _{CM}	Collector Current-Peak	-3.0	Α	
Pc	Collector Power Dissipation@ T _a =25℃	1.5	W	
	Total Power Dissipation@ T _c =25℃	25		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$ C	





isc Silicon PNP Power Transistor

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

.0 _0 _	10 20 0 dimest distributed								
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -500mA; I _B = -50mA			-1.0	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -500mA; I _B = -50mA			-1.5	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = -150V; I _E = 0			-1.0	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3.0V; I _C =0			-1.0	μА			
h _{FE-1}	DC Current Gain	I _C = -5mA ; V _{CE} = -5V	30						
h _{FE-2}	DC Current Gain	I _C = -150mA ; V _{CE} = -5V	60		320				
f⊤	Current-Gain—Bandwidth Product	I _C = -100mA ; V _{CE} = -10V		80		MHz			
Сов	Output Capacitance	I _E = 0 ; V _{CB} = -10V;f= 1.0MHz		45		pF			

h_{FE-2} Classifications

R	Q	P
60-120	100-200	160-320

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