

isc Silicon PNP Power Transistors

2SA1220/A

DESCRIPTION

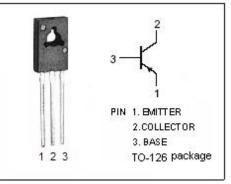
- Good Linearity of h_{FE}
- High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -120V(Min)-2SA1220
 - = -160V(Min)-2SA1220A
- Complement to Type 2SC2690/A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

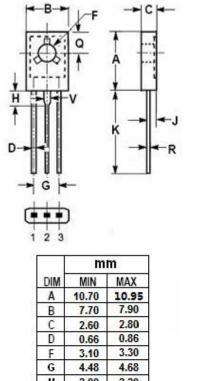
APPLICATIONS

- Adudio frequency power amplifier
- · High frequency power amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER		VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	2SA1220	-120	V	
		2SA1220A	-160		
V _{CEO}		2SA1220	-120	V	
	Collector-Emitter Voltage	2SA1220A	-160		
V _{EBO}	Emitter-Base Voltage		-5	V	
lc	Collector Current-Continuous		-1.2	A	
I _{CM}	Collector Current-Peak		-2.5	А	
I _B	Base Current-Continuous		-0.3	А	
	Collector Power Dissipation @ Ta=25°C		1.2	W	
Pc	Total Power Dissipation @ T _C =25℃	20			
TJ	Junction Temperature		150	Ĉ	
T _{stg}	Storage Temperature Range		-55~150	°C	







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.2A			-0.7	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -1A; I _B = -0.2A			-1.3	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -120V; I _E = 0			-1.0	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C =0			-1.0	μA
hfe-1	DC Current Gain	Ic= -5mA ; Vce= -5V	35			
h _{FE-2}	DC Current Gain	I _C = -0.3A ; V _{CE} = -5V	60		320	
f⊤	Current-Gain—Bandwidth Product	I _C = -0.2A ; V _{CE} = -5V		175		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V;f _{test} = 1.0MHz		26		pF

h_{FE-2} Classifications

R	Q	Р
60-120	100-200	160-320

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