

Silicon PNP Power Transistors

DESCRIPTION

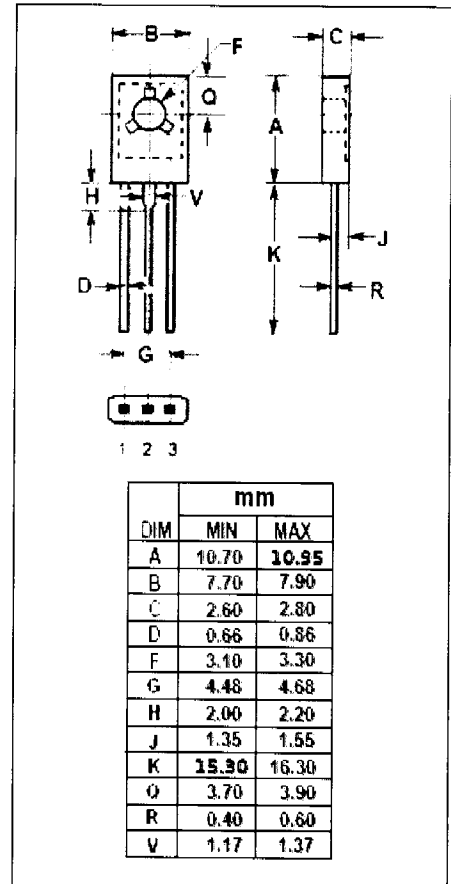
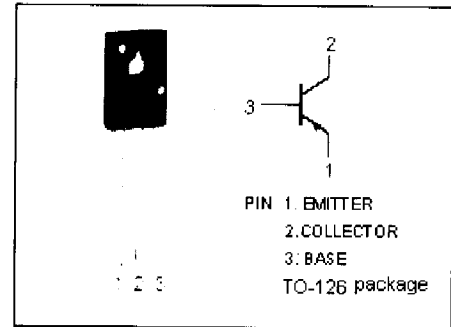
- Good Linearity of h_{FE}
- High Collector-Emitter Breakdown Voltage-
 : $V_{(BR)CEO} = -120V(\text{Min})$ -2SA1220
 = $-160V(\text{Min})$ -2SA1220A
- Complement to Type 2SC2690/A

APPLICATIONS

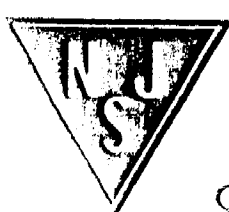
- Audio frequency power amplifier
- High frequency power amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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



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2SA1220/A

ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -1\text{A}; I_B = -0.2\text{A}$			-0.7	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -1\text{A}; I_B = -0.2\text{A}$			-1.3	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -120\text{V}; I_E = 0$			-1.0	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -3\text{V}; I_C = 0$			-1.0	μA
h_{FE-1}	DC Current Gain	$I_C = -5\text{mA}; V_{CE} = -5\text{V}$	35			
h_{FE-2}	DC Current Gain	$I_C = -0.3\text{A}; V_{CE} = -5\text{V}$	60		320	
f_T	Current-Gain—Bandwidth Product	$I_C = -0.2\text{A}; V_{CE} = -5\text{V}$		175		MHz
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = -10\text{V}; f_{test} = 1.0\text{MHz}$		26		pF

◆ h_{FE-2} Classifications

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