

Silicon PNP Power Transistor

2SA1305

DESCRIPTION

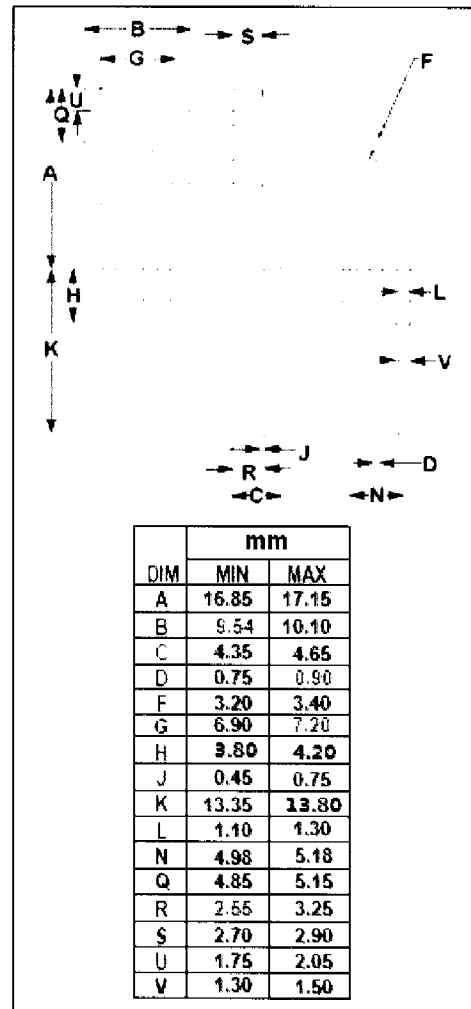
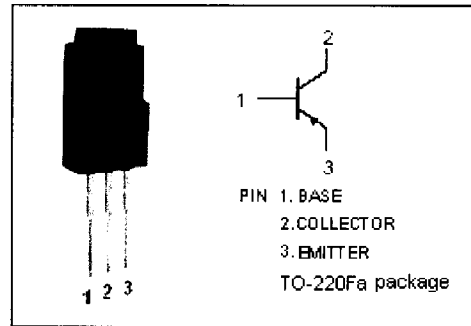
- Collector-Emitter Breakdown Voltage-
 : $V_{(BR)CEO} = -30V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type 2SC3297

APPLICATIONS

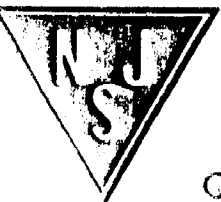
- Power amplifier applications.
- Car radio and car stereo output stage applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-3	A
I_B	Base Current-Continuous	-0.3	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	15	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.



Silicon PNP Power Transistor

2SA1305

ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; I _B = 0	-30			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-0.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.5A; V _{CE} = -2V			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -20V; I _E = 0			-1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1.0	μ A
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -2V	70		240	
h _{FE-2}	DC Current Gain	I _C = -2.5A; V _{CE} = -2V	25			
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -2V		100		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		40		pF

◆ h_{FE-1} Classifications

O	Y
70-140	120-240