

isc Silicon NPN Power Transistor
2SC3297
DESCRIPTION

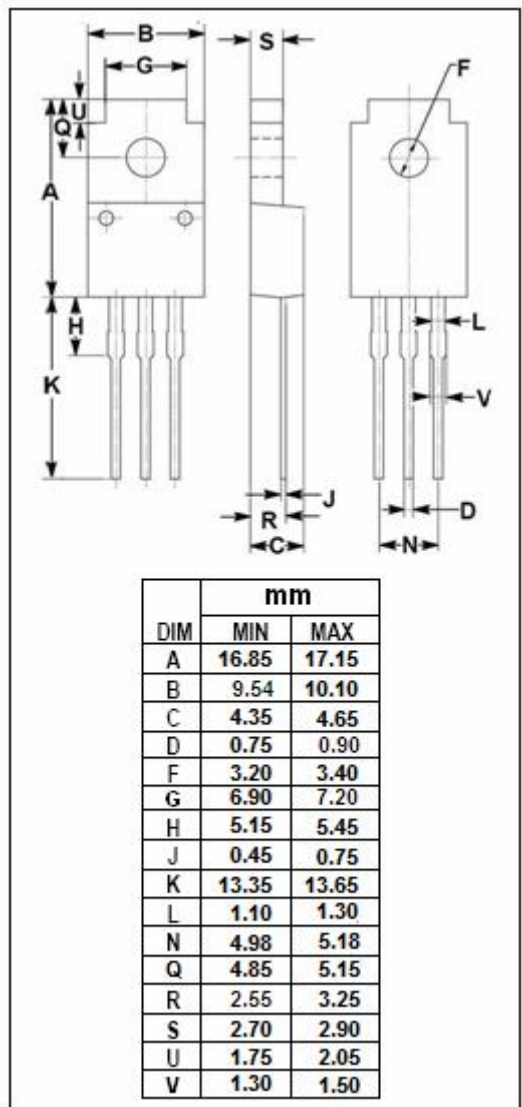
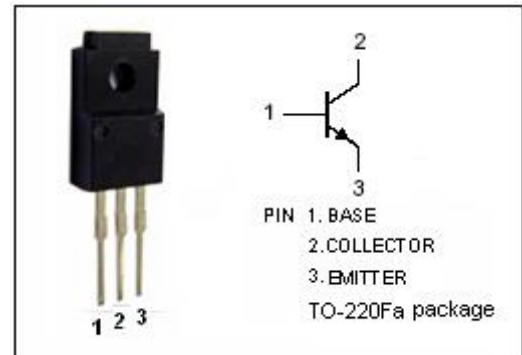
- Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO} = 30V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type 2SA1305
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications.
- Car radio, car stereo output stage amplifier 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	Total Power Dissipation @ $T_C=25^\circ\text{C}$	15	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_c=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	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	μA
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 _{test} = 1.0MHz		35		pF

◆ h_{FE-1} Classifications

O	Y
70-140	120-240

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