

isc Silicon PNP Power Transistor
2SA1635
DESCRIPTION

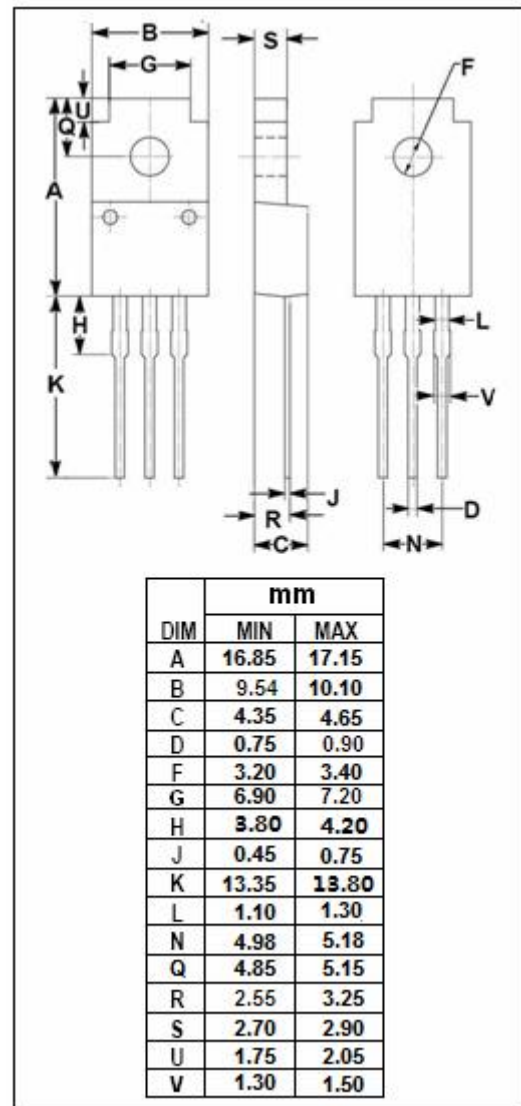
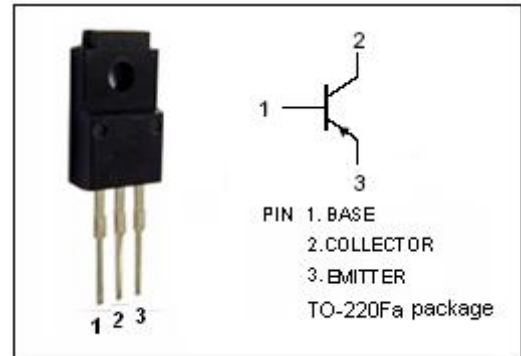
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -1.5V(\text{Max}) @ I_C = -2A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -80V (\text{Min})$
- Wide Area of Safe Operation
- Complement to Type 2SC4008
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio and general purpose applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-4	A
I_{CM}	Collector Current-Peak	-6	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	30	W
	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	2	
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)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μA; I _E = 0	-80			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -25mA; I _B = 0	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -50 μA; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-10	μA
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -4V	60		320	

◆ h_{FE} Classifications

D	E	F
60-120	100-200	160-320

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