

isc Silicon PNP Power Transistor
2SA1869
DESCRIPTION

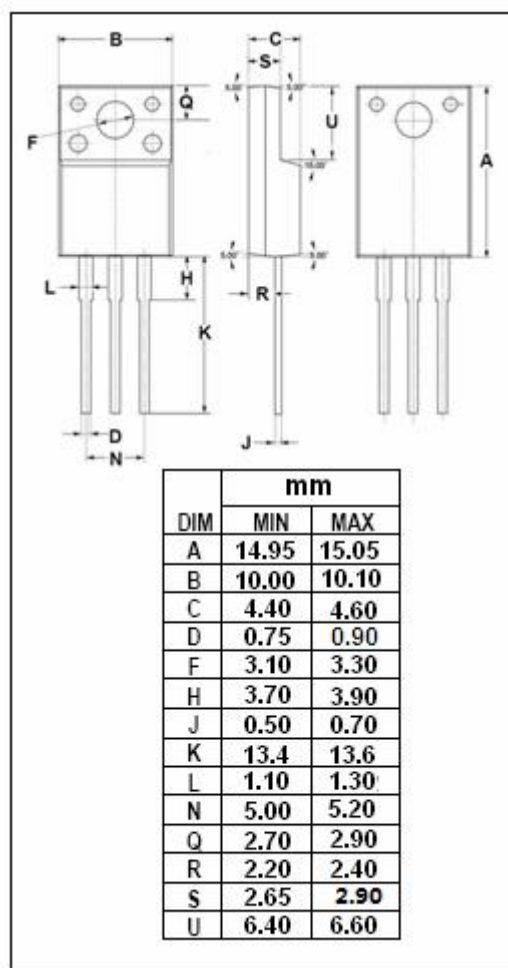
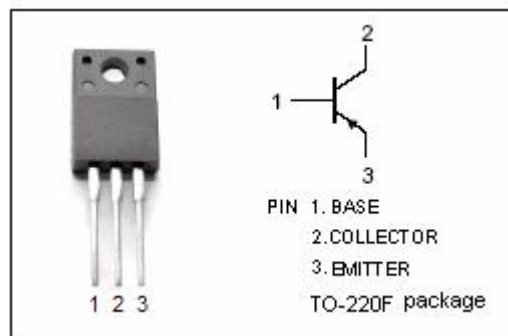
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -50V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type 2SC4935
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	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 @ $T_c=25^\circ\text{C}$	10	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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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	-50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-0.6	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} = -50V; 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	30			
C _{OB}	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		35		pF
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -2V		100		MHz

◆ h_{FE-1} Classifications

O	Y
70-140	120-240

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