

isc Silicon PNP Power Transistor

2SA1051

DESCRIPTION

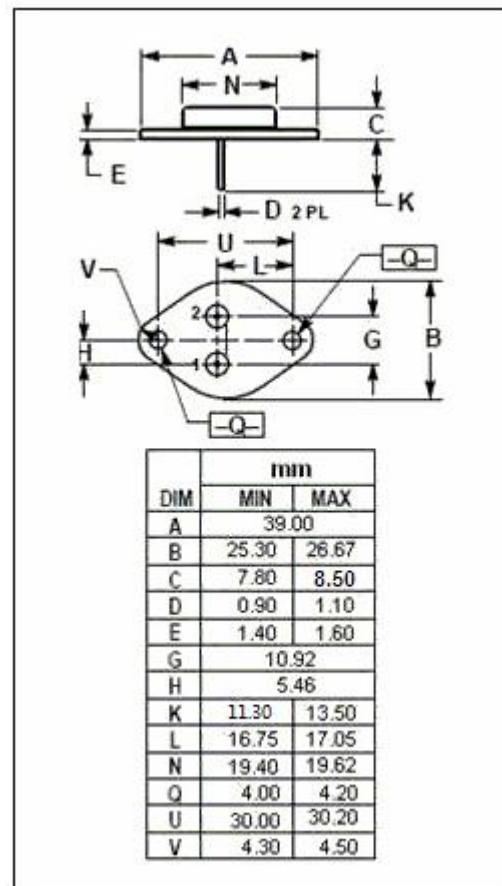
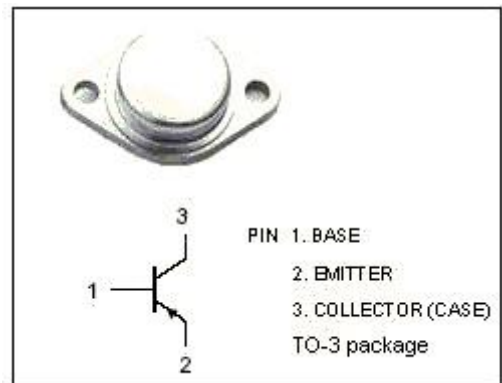
- High Current Capability
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -150V(\text{Min.})$
- High Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power amplifier and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_c	Collector Current-Continuous	-15	A
P_c	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	150	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 = -30mA; I _B = 0	-150			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -7.5A; I _B = -0.75A			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -150V; I _E = 0			-10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	μA
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	55		240	
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		60		MHz

◆ h_{FE} Classifications

R	O	Y
55-110	80-160	120-240

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