

isc Silicon NPN Power Transistor
2N6033
DESCRIPTION

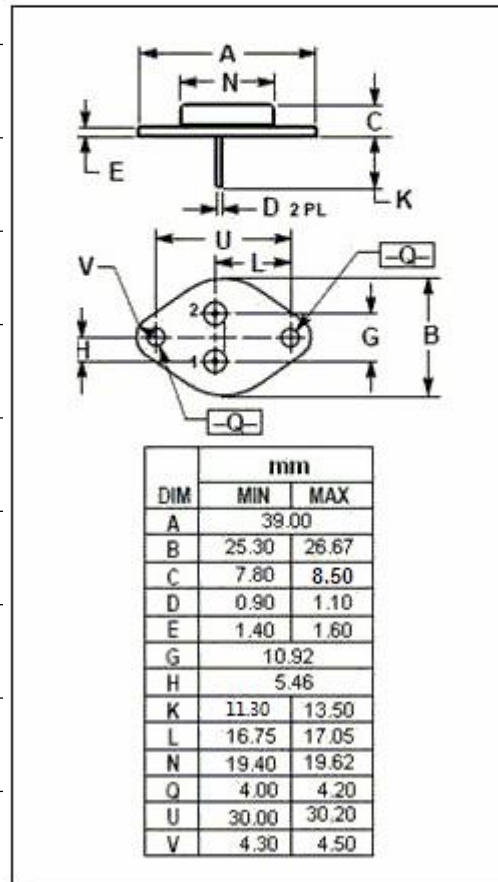
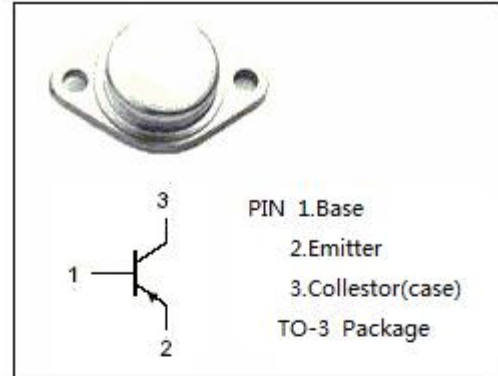
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -120V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device
Performance and reliable operation

APPLICATIONS

- Power amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	120	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	40	A
I_B	Base Current-Continuous	10	A
P_D	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	140	W
T_J	Junction Temperature	-65~200	°C
T_{stg}	Storage Temperature Range	-65~200	°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 =200mA	120			V
I _{CBO}	Collector-Base Cutoff Current	V _{CB} = 150V			25	mA
I _{CEO}	Collector-Emitter Cutoff Current	V _{CB} = 80V			10	mA
I _{EBO}	Emitter-Base Cutoff Current	V _{EB} = 7V			10	mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 40A; I _B = 4A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 40A; I _B = 4A			2.0	V
h _{FE}	DC Current Gain	I _C = 40A; V _{CE} = 2V	10		50	

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