

isc Silicon PNP Power Transistor

3CD6D

DESCRIPTION

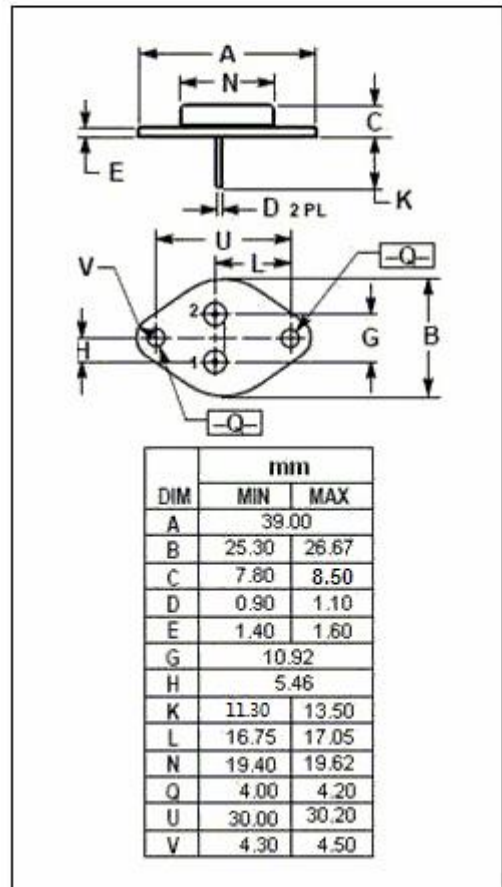
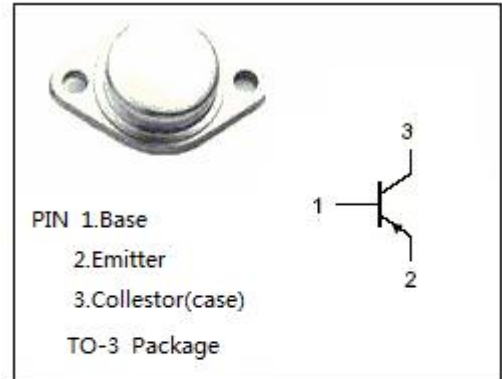
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -110V(\text{Min.})$
- DC Current Gain-
: $h_{FE} = 10-180 @ I_C = -2.5A$
- Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = -1.5V(\text{Max}) @ I_C = -2.5A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier
- Low speed switching
- Power regulator

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-110	V
V_{CEO}	Collector-Emitter Voltage	-110	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current-Continuous	-5	A
P_C	Collector Power Dissipation @ $T_c = 75^\circ C$	50	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$



ELECTRICAL CHARACTERISTICST_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -5mA; I _B = 0	-110		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-110		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -5mA; I _C = 0	-4		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2.5A; I _B = -0.5A		-1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -20V; I _B = 0		-2.0	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -110V; I _E = 0		-10	μ A
h _{FE}	DC Current Gain	I _C = -2.5A; V _{CE} = -10V	10	180	

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