

isc Silicon NPN Power Transistor
2SC1456
DESCRIPTION

- With TO-66 Package
- Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

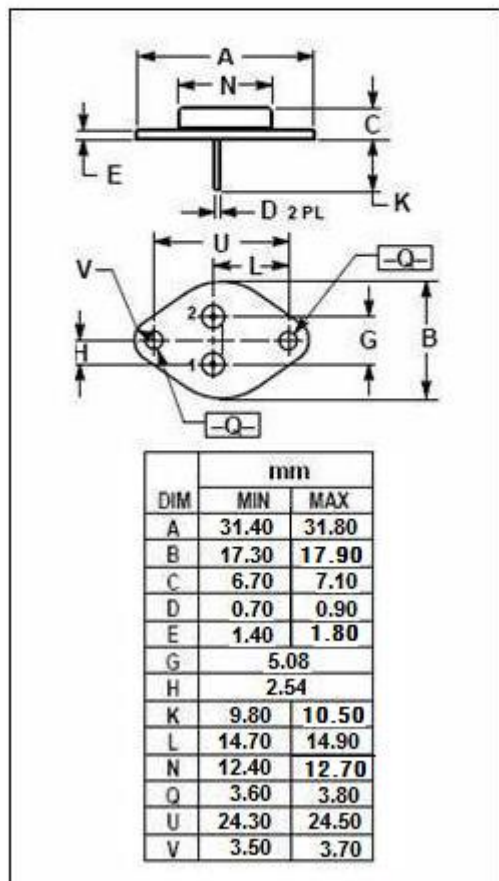
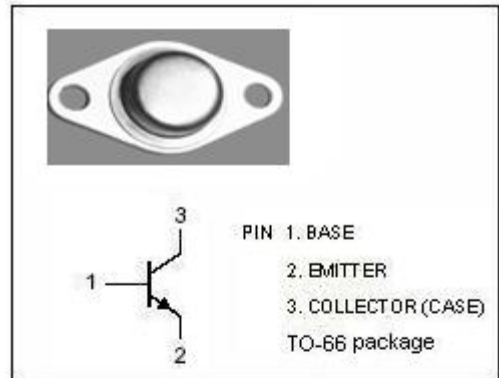
- Designed for switching and wide-band amplifier applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EB0}	Emitter-Base Voltage	5	V
I _c	Collector Current-Continuous	0.15	A
P _c	Collector Power Dissipation @ T _c =25°C	10	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	12.5	°C/W



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA		2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _B = 0		10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C =0		10	μA
h _{FE}	DC Current Gain	I _C = 50mA ; V _{CE} = 10V	30	150	

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