

isc Silicon NPN Power Transistor

2SC1895

DESCRIPTION

- With TO-3 Package
- Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

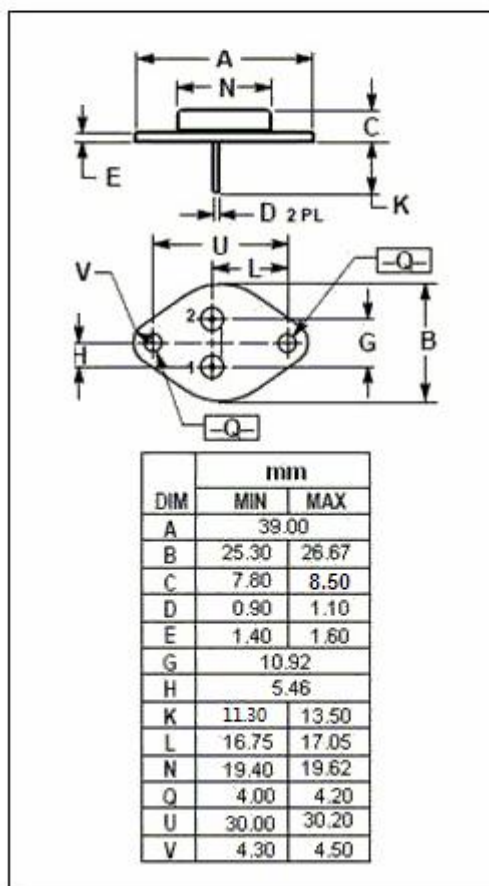
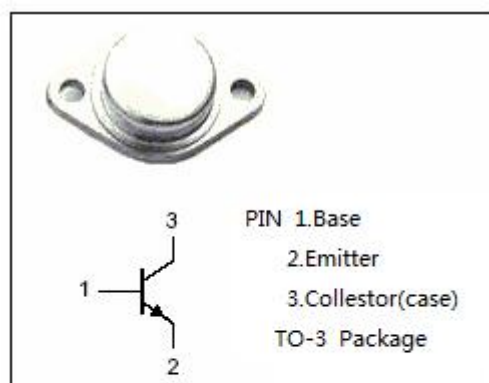
- Designed for switching and wide-band amplifier applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	600	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	6	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	50	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.5	$^{\circ}\text{C/W}$



isc Silicon NPN Power Transistor**2SC1895****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1.0A		5.0	V
V _{BE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1.0A		1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} =750V; I _B = 0		10	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0		10	uA
h _{FE}	DC Current Gain	I _C =2A ; V _{CE} = 10V	8	30	

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