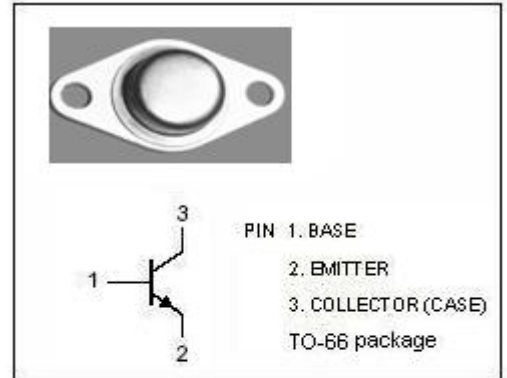


isc Silicon NPN Power Transistor
2N6495
DESCRIPTION

- Collector-Emitter Sustaining Voltage-
: $V_{CEO} = 80V(\text{Min.})$
- With TO-66 package
- Low collector saturation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

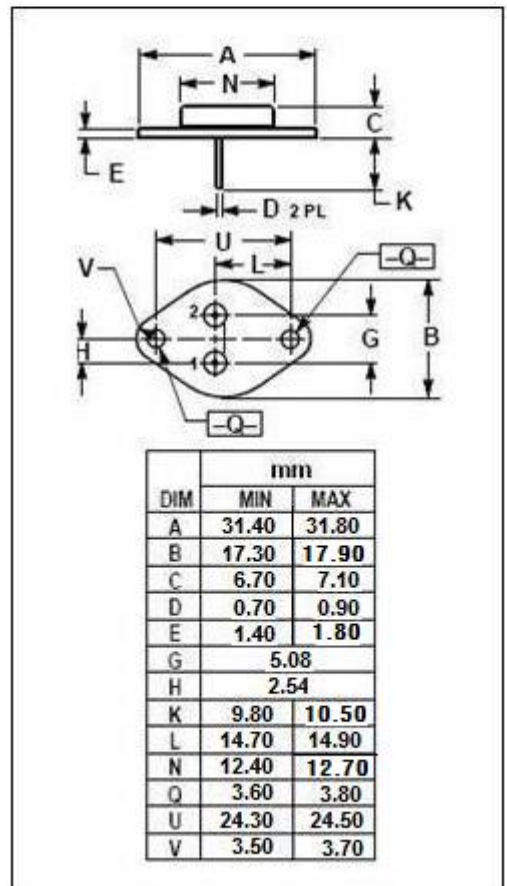
- Designed for switching and wide-band amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	80	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	10	A
P_C	Collector Power Dissipation@ $T_C=25^\circ\text{C}$	70	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-65~200	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	4.37	$^\circ\text{C/W}$



isc Silicon NPN Power Transistor

2N6495

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEQ(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =10A; I _B = 1A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =10A; I _B = 1A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 10A ; V _{CE} = 3V			2.8	V
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 40V; I _B =0			0.1	mA
I _{CBO}	Collector Base Cutoff Current	V _{CB} =150V; I _E = 0			0.1	mA
h _{FE}	DC Current Gain	I _C = 10A; V _{CE} = 3V	10		60	
f _T	Current Gain-Bandwidth Product	I _C = 1A; V _{CE} = 10V		25		MHz

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