

isc Silicon NPN Power Transistor

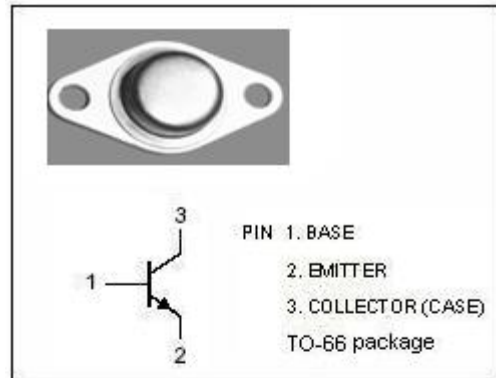
2SC1504

DESCRIPTION

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

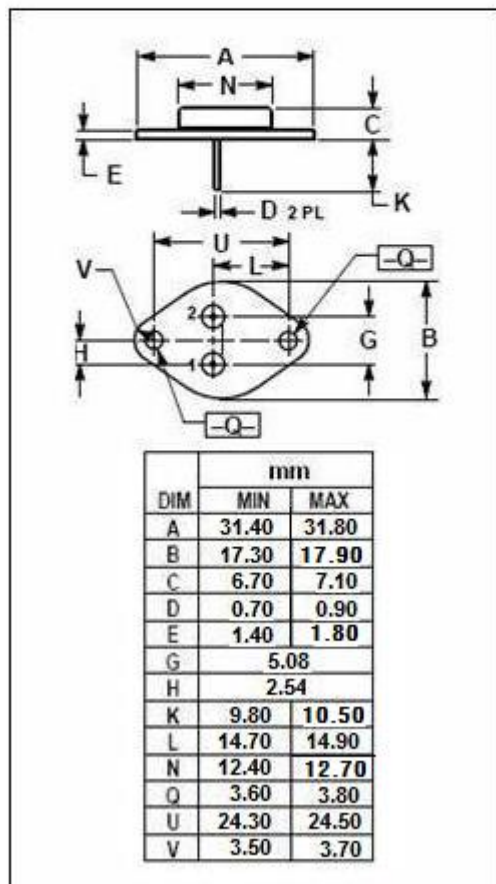
APPLICATIONS

- Designed for switching and wide-band amplifier applications



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-Base Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EB0}	Emitter-Base Voltage	6	V
I _c	Collector Current-Continuous	2.0	A
P _c	Collector Power Dissipation @ T _c =25°C	40	W
T _J	Junction Temperature	200	°C
T _{stg}	Storage Temperature Range	-65~200	°C



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.375	°C/W

isc Silicon NPN Power Transistor**2SC1504****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 1.0\text{A}; I_B= 0.1\text{A}$		1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C= 1.0\text{A}; I_B= 0.1\text{A}$		1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}= 400\text{V}; I_B= 0$		100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}= 6\text{V}; I_C=0$		100	μA
h_{FE}	DC Current Gain	$I_C= 1\text{A}; V_{CE}= 4\text{V}$	20		

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