

isc Silicon NPN Power Transistor

2SC1445

DESCRIPTION

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

APPLICATIONS

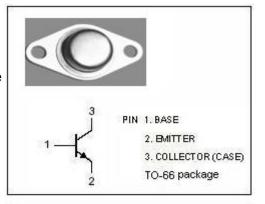
 Designed for switching and wide-band amplifier applications

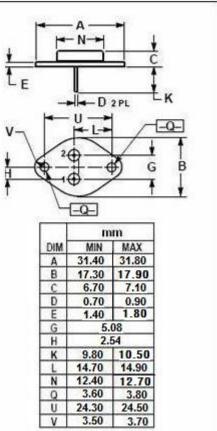


SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	6	А
Pc	Collector Power Dissipation @ Tc=25°C		W
TJ	Junction Temperature -65~150		°C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.125	°C/W





1



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1A		1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 100V;I _B = 0		100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0		100	uA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 4V	30		
h _{FE-2}	DC Current Gain	I _C = 3A ; V _{CE} = 4V	15		
fT	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} =10V, f _{test} = 1.0MHz	10		MHz



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