



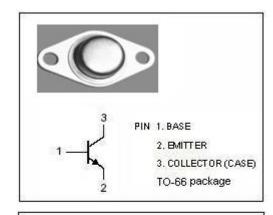
isc Silicon NPN Power Transistor

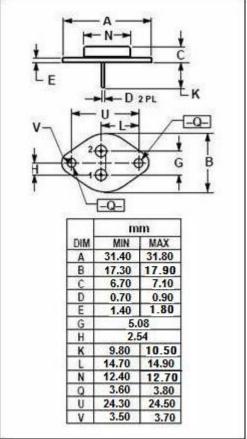
DESCRIPTION

- Continuous Collector Current-I_C= 1A
- Power Dissipation-P_D=30W @T_C= 25 °C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	800	V
Vceo	Collector-Emitter Voltage	500	V
V_{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	1.0	Α
Pc	Collector Power Dissipation@Tc=25°C	30	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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2SD546

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBO L	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =10mA; I _B =0	500			٧
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA; I _B = 100mA			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 500mA; I _B = 100mA			1.5	٧
I _{CBO}	Base Cutoff Current	V _{CE} = 800V; I _B =0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			0.1	mA
h _{FE}	DC Current Gain	I _C = 20mA ; V _{CE} = 10V	40		200	
f⊤	Transition frequency	I _C = 0.1A; V _{CE} = 10V		7		MHz



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