

isc Silicon PNP Power Transistor

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -100V(Min)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= -1.0V(Max.) @I_C= -5A
- · Wide area of safe operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

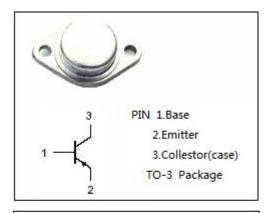


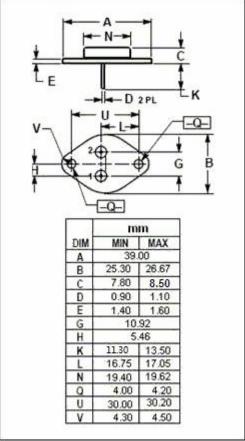
APPLICATIONS

 Designed for low frequency power amplifier and switching applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-7	V
Ic	Collector Current-Continuous	-5	А
Pc	Collector Power Dissipation @Tc=25 ℃	60	W
TJ	Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C







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2SB506

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -10mA; I _B = 0	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-7			V
V _{(BR)CBO}	Collector-Base breakdown voltage	I _C =-1mA; I _E = 0	-150			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -150V; I _E = 0			-10	μА
I _{CEO}	Collector Cutoff Current	V _{CE} = -100V; I _B = 0			-100	μА
ІЕВО	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-10	μА
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	35		200	
f _T	Current-Gain—Bandwidth Product	I _C =-0.3A ; V _{CE} = -10V		20		MHz

Notice:

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