

isc Silicon PNP Power Transistor

2SB407

DESCRIPTION

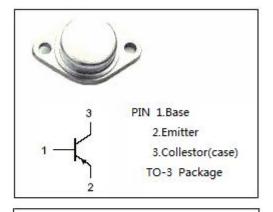
- Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)}= -30V(Min)
- Low Collector Saturation Voltage-
- : V_{CE(sat)}= -1.0V(Max.) @I_C= -6A
- Wide area of safe operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

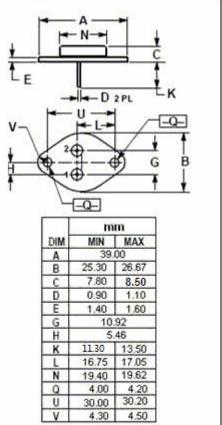
APPLICATIONS

• Designed for power amplifier applications.

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SYMBOL	PARAMETER	VALUE	UNIT				
Vсво	Collector-Base Voltage	-30	V				
V _{CEO}	Collector-Emitter Voltage -30		V				
V _{EBO}	Emitter-Base Voltage	-10	V				
lc	Collector Current-Continuous	-7	А				
Pc	Collector Power Dissipation @Tc=25°C	30	W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature	-55~150	°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)







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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -10mA; I _B = 0	-30			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-10			V
V _{(BR)CBO}	Collector-Base breakdown voltage	I _C =-1mA; I _E = 0	-30			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -6A; I _B = -0.6A			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -6A; I _B = -0.6A			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -30V; I _E = 0			-10	μA
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V; I _B = 0			-100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -10V; I _C = 0			-10	μA
h _{FE}	DC Current Gain	Ic= -1A; Vce= -1.5V	80			

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