

isc Silicon PNP Power Transistor

2SB518

DESCRIPTION

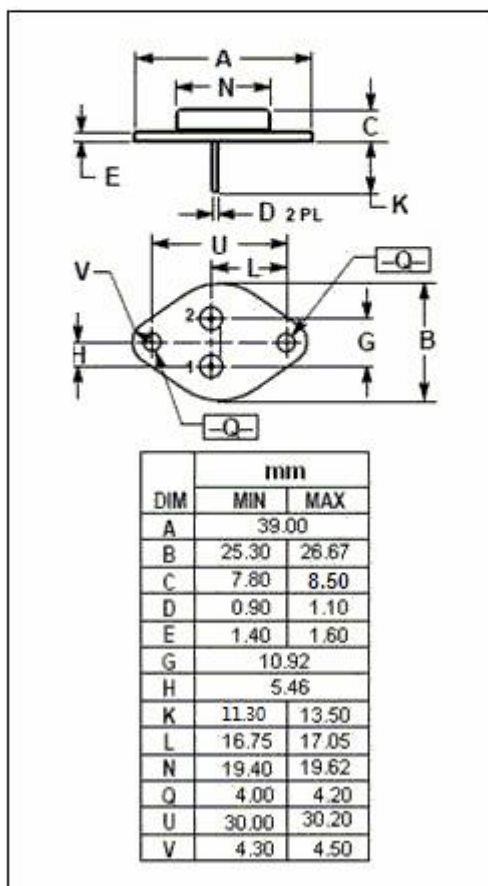
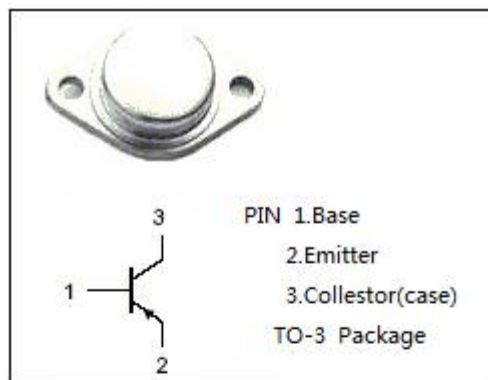
- Collector-Emitter Sustaining Voltage-
: $V_{CE(SUS)} = -90V(\text{Min})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.0V(\text{Max.}) @ I_C = -5A$
- Wide area of safe operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for general-purpose switching and amplifier applications

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-90	V
V_{EBO}	Emitter-Base Voltage	-8	V
I_C	Collector Current-Continuous	-7	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	60	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEQ(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -10mA; I _B = 0	-90			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-8			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			-100	μ A
I _{CEO}	Collector Cutoff Current	V _{CE} = -90V; I _B = 0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -8V; I _C = 0			-10	μ A
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -2V	50			
f _T	Current-Gain—Bandwidth Product	I _C =-0.5A ; V _{CE} = -10V		15		MHz

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