

isc Silicon PNP Power Transistor

2SB625

DESCRIPTION

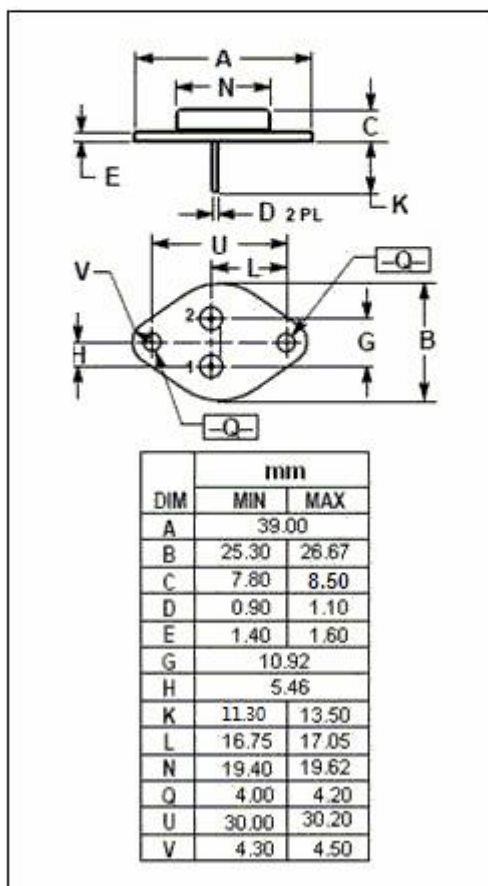
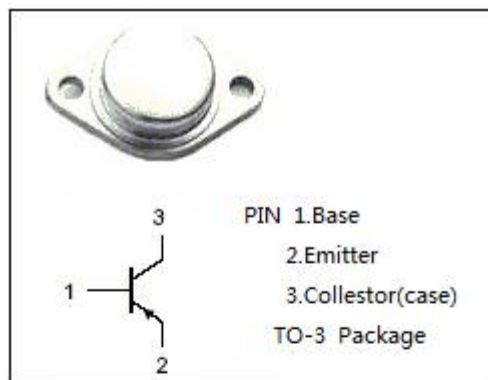
- Collector-Emitter Sustaining Voltage-
: $V_{CE(SUS)} = -100V(\text{Min})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.0V(\text{Max.}) @ I_C = -5A$
- Wide area of safe operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-5	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
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -10mA; I_B = 0$	-100			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -1mA; I_C = 0$	-8			V
$V_{(BR)CBO}$	Collector-Base breakdown voltage	$I_C = -1mA; I_E = 0$	-100			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -5A; I_B = -0.5A$			-1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -1A; V_{CE} = -5V$			-1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -100V; I_E = 0$			-100	μA
I_{CEO}	Collector Cutoff Current	$V_{CE} = -100V; I_B = 0$			-100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5V; I_C = 0$			-10	μA
h_{FE-1}	DC Current Gain	$I_C = -1A; V_{CE} = -5V$	40		200	
h_{FE-2}	DC Current Gain	$I_C = -5A; V_{CE} = -5V$	20			
f_T	Current-Gain—Bandwidth Product	$I_C = -0.5A; V_{CE} = -10V$		7		MHz

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