

isc Silicon NPN Power Transistor
BU926
DESCRIPTION

- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 400V$ (Min)
- Low Saturation Voltage
: $V_{CE(sat)} = 1.5V$ (Max)@ $I_C = 5A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

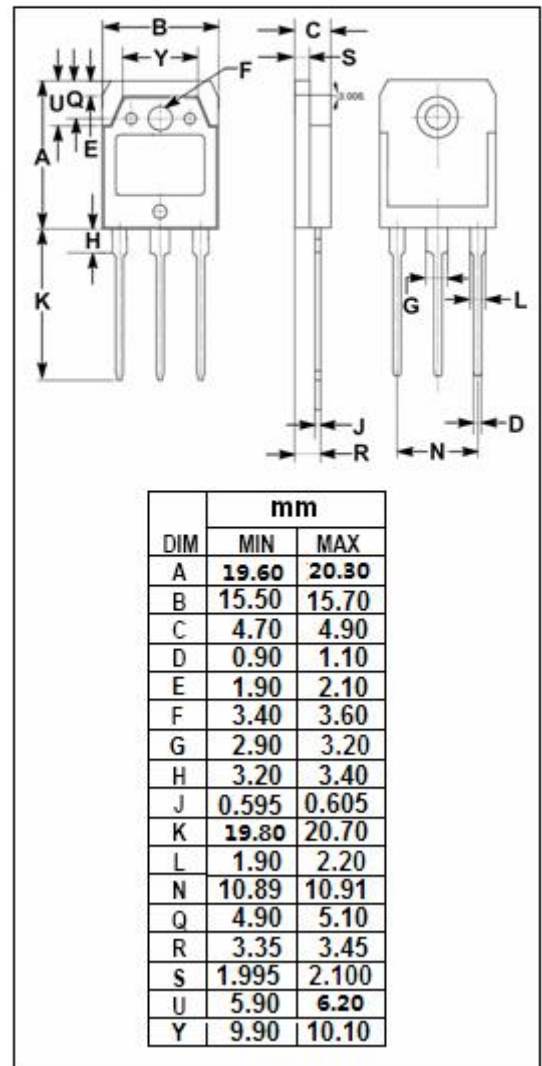
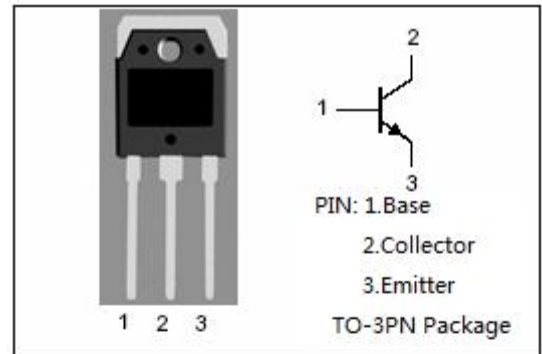
- Designed for use in high-voltage , high-speed , power switching in inductive circuit.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Base-Emitter Voltage	850	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current- Continuous	8	A
I_{CM}	Collector Current-Peak	10	A
I_B	Base Current- Continuous	2	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}C$	120	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{th-j-c}	Thermal Resistance, Junction to Case	1.04	$^{\circ}C/W$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _c = 50mA ; I _B = 0	400			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _c = 5A; I _B = 1A			1.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _c = 8A; I _B = 2A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _c = 5A; I _B = 1A			1.6	V
I _{CEx}	Collector Cutoff Current	V _{CE} = 850V; V _{BE} = -2.5V			0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1.0	mA
f _T	Current-Gain—Bandwidth Product	I _C = 0.2A; V _{CE} = 10V; f _{test} = 1MHz		4		MHz

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