

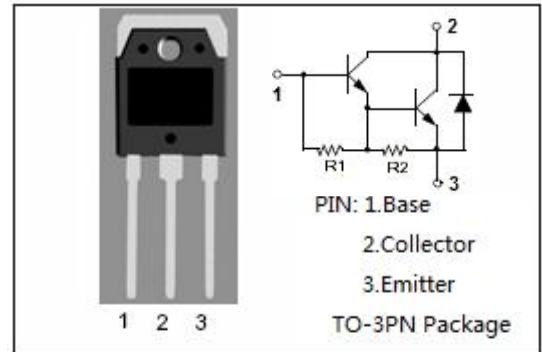
Silicon NPN Power Transistor

DESCRIPTION

- High Voltage
- DARLINGTON

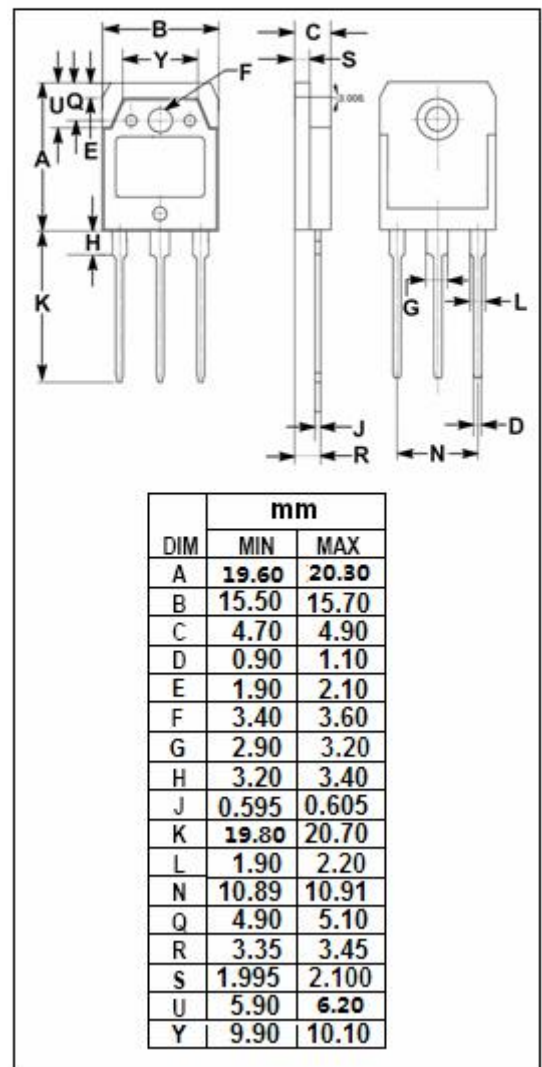
APPLICATIONS

- High ruggedness electronic ignitions
- High voltage ignition coil driver



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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	500	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current- Continuous	15	A
I_{CM}	Collector Current-Peak	30	A
I_B	Base Current	1	A
I_{BM}	Base Current-Peak	5	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	155	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.97	$^\circ\text{C/W}$

Ordering Information

Product	Package	Packaging
BU941PT4TL	TO-3PN	Tube



ELECTRICAL CHARACTERISTICS

$T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C=50\text{mA}; I_B=0$	400			V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C=8\text{A}; I_B=100\text{mA}$			1.6	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C=10\text{A}; I_B=250\text{mA}$			1.8	V
$V_{CE(sat)-3}$	Collector-Emitter Saturation Voltage	$I_C=12\text{A}; I_B=300\text{mA}$			2.0	V
$V_{BE(sat)-1}$	Base-Emitter Saturation Voltage	$I_C=8\text{A}; I_B=100\text{mA}$			2.2	V
$V_{BE(sat)-2}$	Base-Emitter Saturation Voltage	$I_C=10\text{A}; I_B=250\text{mA}$			2.5	V
$V_{BE(sat)-3}$	Base-Emitter Saturation Voltage	$I_C=12\text{A}; I_B=300\text{mA}$			2.7	V
I_{CES}	Collector Cutoff Current	$V_{CE}=500\text{V}; V_{BE}=0$ $V_{CE}=500\text{V}; V_{BE}=0; T_j=125^{\circ}\text{C}$			0.1 0.5	mA
I_{CEO}	Collector Cutoff Current	$V_{CE}=450\text{V}; I_B=0$ $V_{CE}=450\text{V}; I_B=0; T_j=125^{\circ}\text{C}$			0.1 0.5	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$			20	mA
h_{FE}	DC Current Gain	$I_C=5\text{A}; V_{CE}=10\text{V}$	300			
V_{ECF}	C-E Diode Forward Voltage	$I_F=10\text{A}$			2.5	V

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