

isc Silicon NPN Power Transistor

BU932P

DESCRIPTION

- High Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

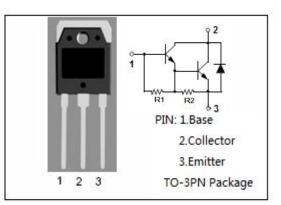
- High ruggedness electronic ignitions.
- · High voltage ignition coil driver

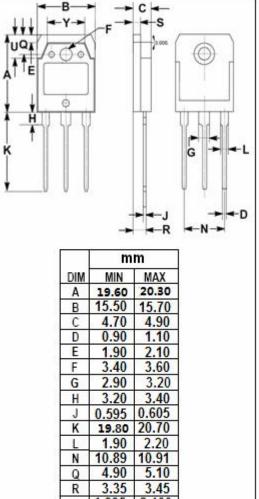
ABSOLUTE MAXIMUM RATINGS (Ta=25 °C)

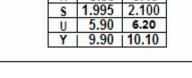
SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	500	v
V _{CEO}	Collector-Emitter Voltage	450	V
Vebo	Emitter-Base Voltage	5	V
lc	Collector Current	15	А
I _{CM}	Collector Current-peak	30	А
Ів	Base Current	1	А
I _{BM}	Base Current-peak	5	А
Pc	Collector Power Dissipation @T _c =25°C	105	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-40~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	2.08	°C/W	







isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	450			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 150mA			1.8	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 150mA			2.2	V
I _{CES}	Collector Cutoff Current	V _{CE} = 500V;V _{BE} = 0 V _{CE} = 500V;V _{BE} = 0;Tj= 125℃			1.0 5.0	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 450V;I _B = 0			1.0	mA
Іево	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			50	mA
h _{FE}	DC Current Gain	I _C = 5A ; V _{CE} = 10V	300			
V _{ECF}	C-E Diode Forward Voltage	I _F = 10A			2.8	V

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