

### **isc Silicon NPN Power Transistor**

# **BU932P**

#### DESCRIPTION

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

#### **APPLICATIONS**

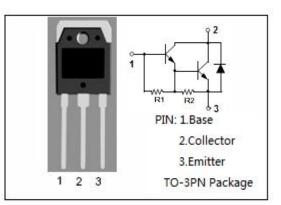
- High ruggedness electronic ignitions.
- · High voltage ignition coil driver

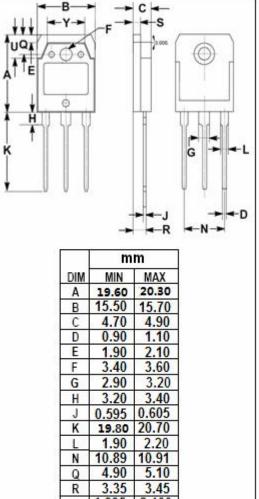
#### ABSOLUTE MAXIMUM RATINGS (Ta=25 °C)

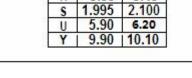
SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	500	v
V <sub>CEO</sub>	Collector-Emitter Voltage	450	V
Vebo	Emitter-Base Voltage	5	V
lc	Collector Current	15	А
I <sub>CM</sub>	Collector Current-peak	30	А
Ів	Base Current	1	А
I <sub>BM</sub>	Base Current-peak	5	А
Pc	Collector Power Dissipation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

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
R <sub>th j-c</sub>	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 <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = 50mA; I <sub>B</sub> = 0	450			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 8A; I <sub>B</sub> = 150mA			1.8	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 8A; I <sub>B</sub> = 150mA			2.2	V
I <sub>CES</sub>	Collector Cutoff Current	V <sub>CE</sub> = 500V;V <sub>BE</sub> = 0 V <sub>CE</sub> = 500V;V <sub>BE</sub> = 0;Tj= 125℃			1.0 5.0	mA
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = 450V;I <sub>B</sub> = 0			1.0	mA
Іево	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			50	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 5A ; V <sub>CE</sub> = 10V	300			
V <sub>ECF</sub>	C-E Diode Forward Voltage	I <sub>F</sub> = 10A			2.8	V

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