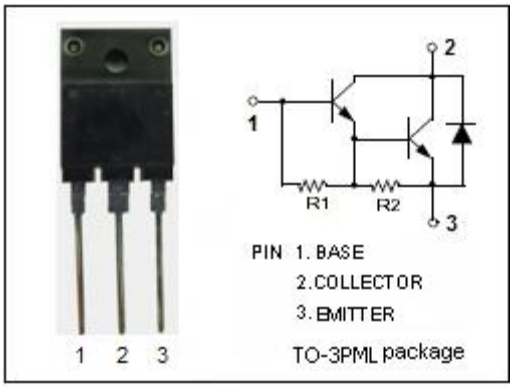
isc Silicon NPN Power Transistor — BU932RPFI



DESCRIPTION

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

APPLICATIONS

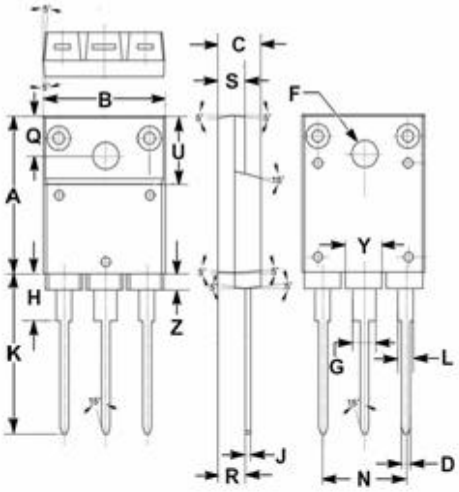
- High ruggedness electronic ignitions
- High voltage ignition coil driver

ABSOLUTE MAXIMUM RATINGS (T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	500	V
V_{CEO}	Collector-Emitter Voltage	450	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	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℃	60	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-40~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	2.08	℃/W



DIM	mm MIN	mm MAX
A	19.90	20.10
B	15.75	16.10
C	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
H	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
N	10.80	11.00
Q	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	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= 8 A; I_B= 150mA			1.8	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 8 A; I_B= 150mA			2.2	V
I_{CES}	Collector Cutoff Current	V_{CE}= 500V;V_{BE}= 0 V_{CE}= 500V;V_{BE}= 0;T_j= 125℃			1.0 5.0	mA
I_{CEO}	Collector Cutoff Current	V_{CE}= 450V;I_B= 0			1.0	mA
I_{EBO}	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