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آترین الکترونیک

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02166766957 - 02166766927



info@atrinelec.com



تهران پاساژ امجد طبقه 1 واحد 16



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isc Silicon NPN Power Transistor

BUX98AP



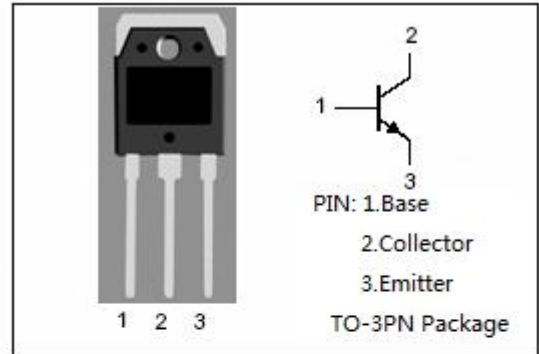
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DESCRIPTION

- High Voltage Capability
- High Current Capability
- Fast Switching Speed

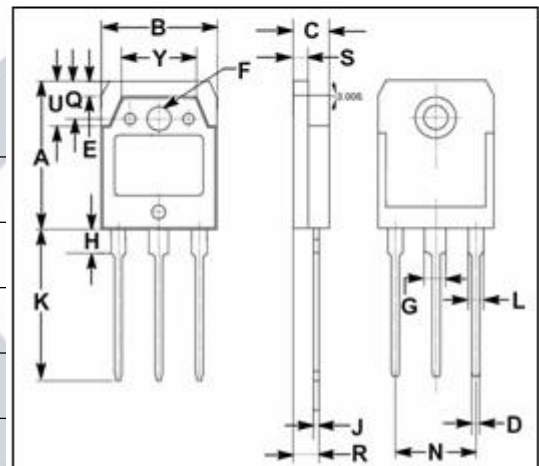
APPLICATIONS

- High frequency and efficiency converters
- Linear and switching industrial equipment



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1000	V
V _{CEO}	Collector-Emitter Voltage	450	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current-Continuous	24	A
I _{CM}	Collector Current-peak (tp <5 ms)	36	A
I _B	Base Current-Continuous	5	A
I _{BM}	Base Current-peak (tp <5 ms)	8	A
P _C	Collector Power Dissipation @T _c =25°C	200	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C



DIM	mm	
	MIN	MAX
A	19.60	20.30
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Y	9.90	10.10

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.63	°C/W

isc Silicon NPN Power Transistor**BUX98AP****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$\star V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C=50\text{mA}; I_B=0$	450			V
$V_{CER(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C=1\text{mA}$	1000			V
$\star V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C=16\text{A}; I_B=3.2\text{A}$			1.2	V
$\star V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=16\text{A}; I_B=3.2\text{A}$			1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=1000\text{V}; I_E=0$ $V_{CB}=1000\text{V}; I_E=0 T_C=125^{\circ}\text{C}$			0.4 4	mA
I_{CEO}	Collector Cutoff Current	$V_{CE}=450\text{V}; I_B=0$			2	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$			2	mA
h_{FE}	DC Current Gain	$I_C=1\text{A}; V_{CE}=5\text{V}$	15		50	

\star Pulsed: Pulse duration = 300 ms, duty cycle = 1.5 %

Switching Times

t_{on}	Turn-on Time	$I_C=16\text{A}; I_{B1}=-I_{B2}=3.2\text{A};$ $V_{CC}=150\text{V}$			1.0	μs
t_s	Storage Time				3.0	μs
t_f	Fall Time				0.8	μs