

NPN BUX98A

HIGH VOLTAGE FAST SWITCHING

The BUX98A is silicon multiepitaxial NPN transistor in Jedec TO-3. They are intended and industrial applications from single and three-phase mains operation. Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

Symbol	Rati	ngs	Value	Unit
V _{CEO}	Collector-Emitter Voltage	$I_{B} = 0$	450	V
V _{CBO}	Collector-Base Voltage	$I_E = 0$	1000	V
V _{EBO}	Emitter-Base Voltage	$I_{\rm C} = 0$	7	V
I _C	Collector Current		30	А
I _{CM}	Collector Peak Current	t _p = <5ms	60	А
I _B	Base Current		8	А
I _{BM}	Base Peak Current	t _p = <5ms	30	А
Pt	Total Power Dissipation	@ T _C = 25°	250	W
TJ	Junction Temperature		200	°C
T _{Stg}	Storage Temperature		-65 to +200	С°

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R _{thJC}	Thermal Resistance, Junction to Case0.7°C/W		°C/W



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ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Тур	Max	Unit
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage (*)	I _C = 200 mA	450	-	-	V
V _{CER(SUS)}	Collector-Emitter Sustaining Voltage (*)	I_{C} = 1 A, L = 2 mH R _{BE} = 10 Ω	1000	-	-	V
I _{CEO}	Collector Cutoff Current	$V_{CE} = V_{CEO}$, $I_B = 0$	-	-	2	mA
		$V_{CE} = 1000 \text{ V}, \text{ V}_{BE} = 0$	-	-	0.4	
I _{CES}	Collector Cutoff Current	V _{CE} = 1000 V, V _{BE} = 0 T _{CASE} = 125°C	-	-	4	mA
I _{EBO}	Emitter Cutoff Current	$V_{EB} = 5.0 \text{ V}, I_{C} = 0$	-	-	2	mA
v	Collector-Emitter saturation	$I_{C} = 16 \text{ A}$, $I_{B} = 3.2 \text{ A}$	-	-	1.5	
V _{CE(SAT)}	Voltage (*)	$I_{C} = 24 \text{ A}$, $I_{B} = 5 \text{ A}$	-	-	5	V
V _{BE(SAT)}	Base-Emitter saturation Voltage (*)	$I_{\rm C} = 16 \text{ A}$, $I_{\rm B} = 3.2 \text{ A}$	-	-	1.6	v
t _{on}	Turn-on time		-	-	1	
t _s	Storage time	I_{C} = 16 A , V_{CC} = 150 V I_{B1} = - I_{B2} = 3.2 A	-	-	3	μs
t _f	File time		-	-	0.8	

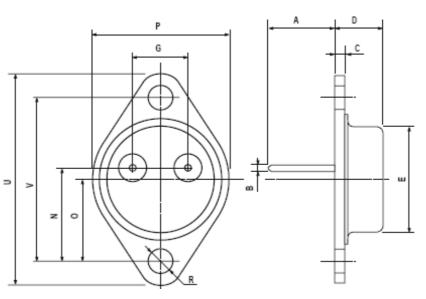
(*) Pulse Duration = 300 $\mu s,$ Duty Cycle $\leq 1.5\%$



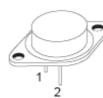
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MECHANICAL DATA CASE TO-3

DIMENSIONS (mm)		
	min	max
A	11	13.10
В	0.97	1.15
С	1.5	1.65
D	8.32	8.92
F	19	20
G	10.70	11.1
N	16.50	17.20
Р	25	26
R	4	4.09
U	38.50	39.30
V	30	30.30



Pin 1 :	Base
Pin 2 :	Emitter
Case :	Collector



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