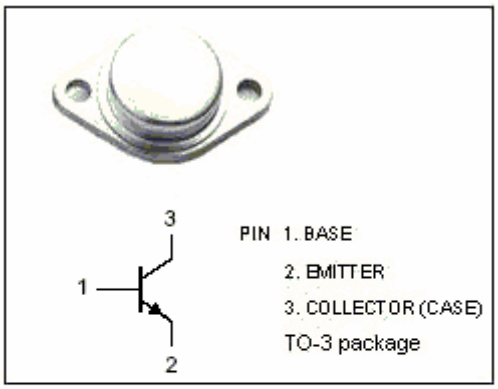
isc Silicon NPN Power Transistors BUX32/A/B

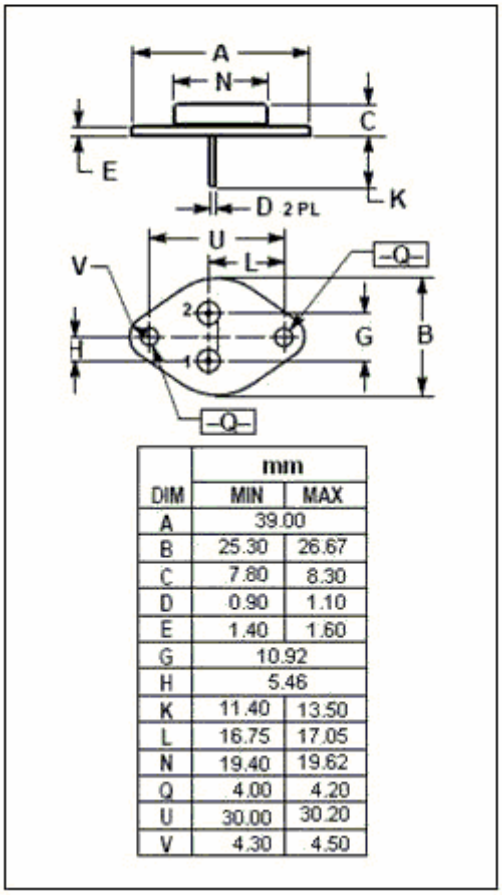
DESCRIPTION

- High Switching Speed
- Collector-Emitter Sustaining Voltage-
  : $V_{CEO(SUS)}$= 400V (Min)-BUX32
  = 450V (Min)-BUX32A
  = 450V (Min)-BUX32B
- Low Saturation Voltage

APPLICATIONS

- Designed for off-line power supplies and are also well suited for use in a wide range of inverter or converter circuits and pulse-width-modulated regulators.





DIM	mm	
	MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.30
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.40	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER		MAX	UNIT
V_{CES}	Collector- Emitter Voltage(V_{BE}= 0)	BUX32	800	V
		BUX32A	900	
		BUX32B	1000	
V_{CEO}	Collector-Emitter Voltage	BUX32	400	V
		BUX32A	450	
		BUX32B	500	
V_{EBO}	Emitter-Base Voltage		8	V
I_C	Collector Current-Continuous		8	A
I_{CM}	Collector Current-Peak		10	A
I_B	Base Current-Continuous		5	A
P_C	Collector Power Dissipation @T_C=25℃		150	W
T_j	Junction Temperature		200	℃
T_{stg}	Storage Temperature Range		-65~200	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	1.0	℃/W

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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	BUX32	I_C= 0.2A ; I_B= 0	400			V
		BUX32A		450			
		BUX32B		500			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		I_C= 6A; I_B= 1.2A			1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		I_C= 6A; I_B= 1.2A			1.3	V
I_{CEV}	Collector Cutoff Current	BUX32	V_{CE}= 800V;V_{BE}= -1.5V V_{CE}= 800V;V_{BE}= -1.5V,T_C=125℃			0.1 1.0	mA
		BUX32A	V_{CE}= 900V;V_{BE}= -1.5V V_{CE}= 900V;V_{BE}= -1.5V,T_C=125℃			0.1 1.0	
		BUX32B	V_{CE}= 1000V;V_{BE}= -1.5V V_{CE}= 1000V;V_{BE}= -1.5V,T_C=125℃			0.1 1.0	
I_{EBO}	Emitter Cutoff Current		V_{EB}= 8V; I_C= 0			2	mA
h_{FE}	DC Current Gain		I_C= 6A ; V_{CE}= 3V	8			
f_T	Current-Gain—Bandwidth Product		I_C= 0.2A ;V_{CE}= 10V	15			MHz