

isc Silicon NPN Power Transistors

BUX67/A/B/C

DESCRIPTION

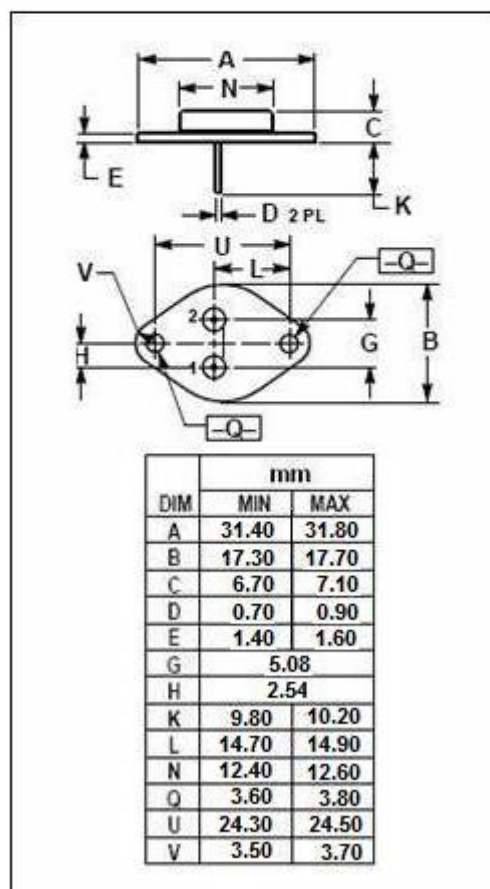
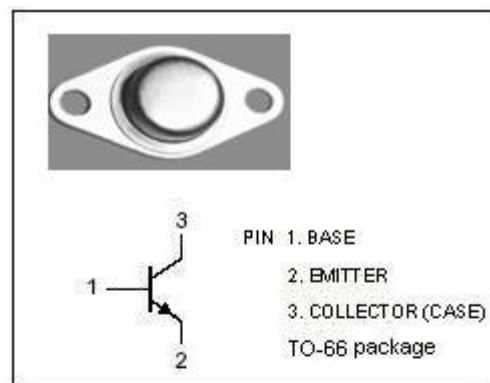
- Continuous Collector Current- $I_C = 2A$
- Power Dissipation- $P_D = 35W @ T_C = 25^\circ C$
- Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = 2.5V(Max) @ I_C = 1A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high-speed switching and linear amplifier application for high-voltage operational amplifiers, switching regulators, converters, deflection stages and high fidelity amplifiers.

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	BUX67	200	V
		BUX67A	300	
		BUX67B	350	
		BUX67C	400	
V_{CEO}	Collector-Emitter Voltage	BUX67	150	V
		BUX67A	250	
		BUX67B	300	
		BUX67C	350	
V_{EBO}	Emitter-Base Voltage	6	V	
I_C	Collector Current-Continuous	2.0	A	
I_{CP}	Collector Current-Peak	5.0	A	
I_B	Base Current	1.0	A	
P_C	Collector Power Dissipation@ $T_C = 25^\circ C$	35	W	
T_J	Junction Temperature	200	$^\circ C$	
T_{stg}	Storage Temperature	-65~200	$^\circ C$	



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ELECTRICAL CHARACTERISTICS

 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(SUS)}	Collector-Emitter Sustaining Voltage	BUX67	I _C =50mA ; I _B =0			V
		BUX67A				
		BUX67B				
		BUX67C				
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.15A			2.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.15A			1.4	V
I _{CBO}	Collector Cutoff Current	BUX67				mA
		BUX67A				
		BUX67B				
		BUX67C				
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			0.5	mA
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	10		150	
f _T	Current Gain-Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V		25		MHz

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