

**isc Silicon NPN Power Transistor**
**BUV62A**
**DESCRIPTION**

- With TO-3 packaging
- Large collector current
- Low collector saturation voltage
- High power dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

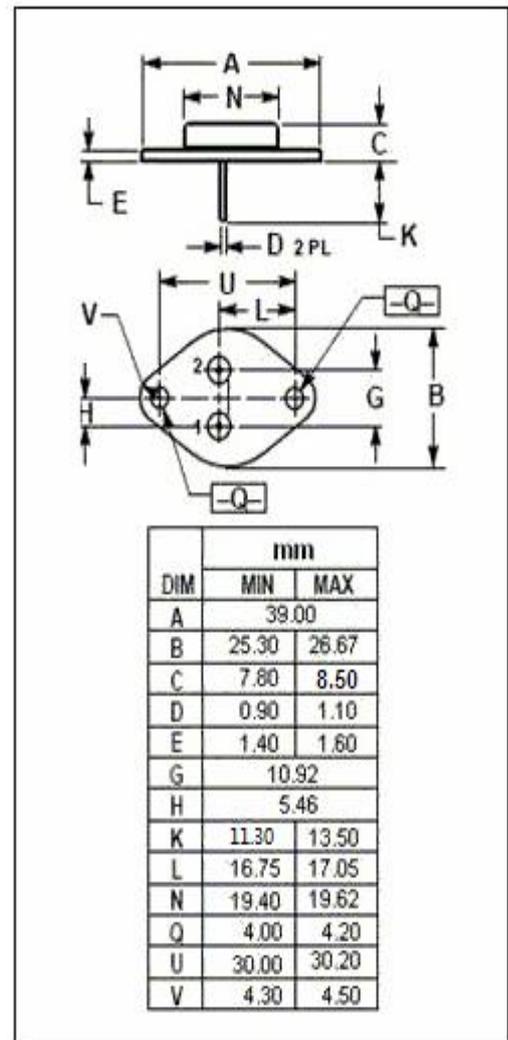
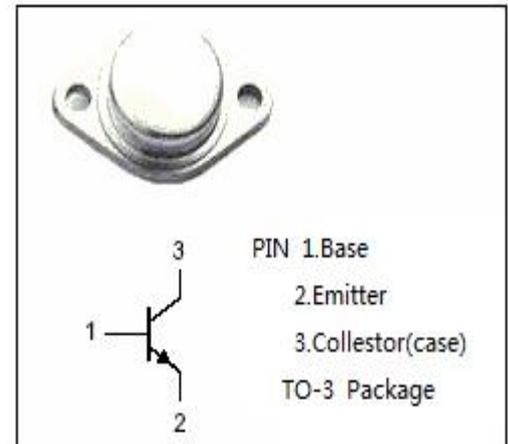
- Designed for use in DC-DC converter
- Driver of solenoid or motor
- For audio amplifier applications

**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CB0</sub>	Collector-Base Voltage	400	V
V <sub>CEO</sub>	Collector-Emitter Voltage	300	V
V <sub>EBO</sub>	Emitter-Base Voltage	7	V
I <sub>C</sub>	Collector Current-Continuous	40	A
I <sub>CM</sub>	Peak Collector Current	60	A
I <sub>B</sub>	Base Current	8	A
P <sub>C</sub>	Collector Power Dissipation@T <sub>C</sub> =75°C	250	W
T <sub>J</sub>	Junction Temperature	-55~200	°C
T <sub>stg</sub>	Storage Temperature	-65~200	°C

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	0.7	°C/W



## isc Silicon NPN Power Transistors

## BUV62A

## ELECTRICAL CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=10\text{mA}; I_B=0$	300		V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C=50\text{mA}; I_E=0$	400		V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=10\text{mA}; I_C=0$	7		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=15\text{A}; I_B=1.5\text{A}$		0.9	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=15\text{A}; I_B=1.5\text{A}$		1.3	V
$I_{CEO}$	Collector Cutoff Current	$V_{CE}=300\text{V}; I_B=0$		1.0	mA
$I_{CBO}$	Collector Cutoff Current	$V_{CB}=400\text{V}; I_E=0$		1.0	mA
$h_{FE}$	DC Current Gain	$I_C=5\text{A}; V_{CE}=4\text{V}$	40	50	

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