

isc Silicon NPN Power Transistor

BU626A

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 400V(\text{Min.})$
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = 3.3V(\text{Max.}) @ I_C = 8A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

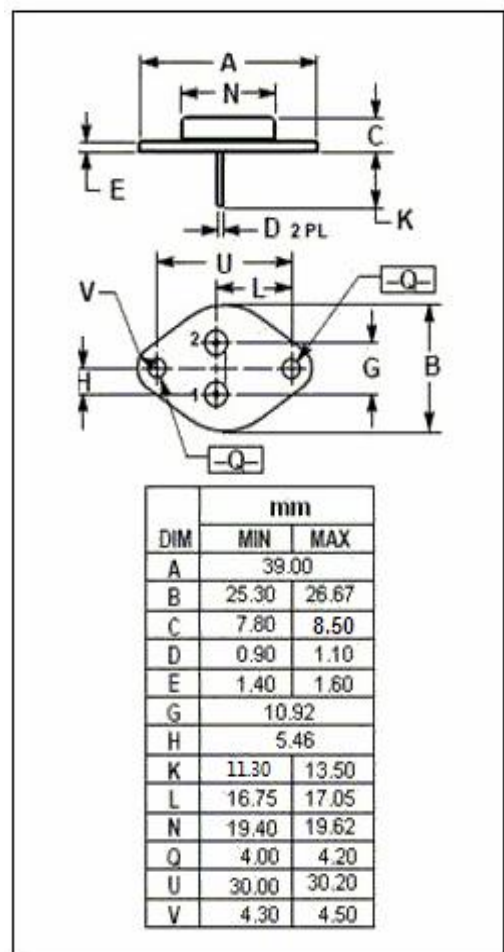
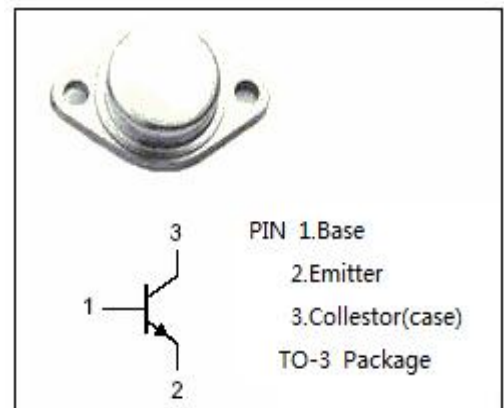
- Designed for use in power supply units of TV receivers.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1000	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	10	A
I_{CM}	Collector Current-Peak	15	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	100	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.5	$^\circ\text{C/W}$



isc Silicon NPN Power Transistor**BU626A****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA; I _C = 0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A			3.3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A			2.2	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1000V; V _{BE} = 0			1.0	mA
h _{FE-1}	DC Current Gain	I _C = 10A; V _{CE} = 1.5V	10			
h _{FE-2}	DC Current Gain	I _C = 2.5A; V _{CE} = 10V	15			
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V	6			MHz
t _f	Fall Time	I _C = 8A; I _{B1} = -I _{B2} = 2.5A			1.0	μs

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