

isc Silicon NPN Power Transistor

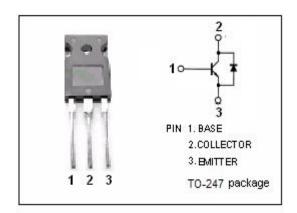
BU508DW

DESCRIPTION

- High Voltage-V_{CES}= 1500V(Min.)
- Collector Current- I_C = 8.0A
- · Built-in Integrated Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for use in large screen color deflection circuits .

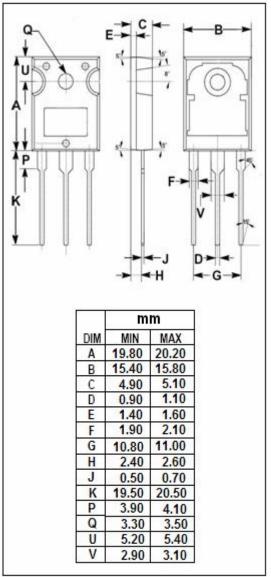


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Emitter Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	700	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	8.0	А
Ісм	Collector Current-Peak	15	А
I _B	Base Current-Continuous	4	Α
I _{BM}	Base Current-Peak	6	А
Pc	Collector Power Dissipation @T _C =25°C	125	W
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}\mathbb{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	j-c Thermal Resistance,Junction to Case		°C/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	I _C = 50mA; I _B = 0	700			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4.5A; I _B = 1.6A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 2A			1.1	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V; V _{BE} = 0 V _{CE} = 1500V; V _{BE} = 0; T _C = 125°C			1.0 2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5.0V; I _C = 0			1	mA
h _{FE}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	6		30	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		7		MHz
V _{ECF}	C-E Diode Forward Voltage	I _F = 4.5A			2.0	V

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