

isc Silicon NPN Power Transistor

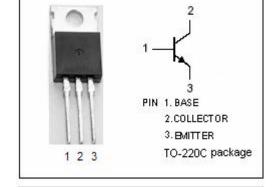
BU508AT

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 700V (Min)
- · High Power Dissipation-
 - : P_D= 100W@T_C= 25℃
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

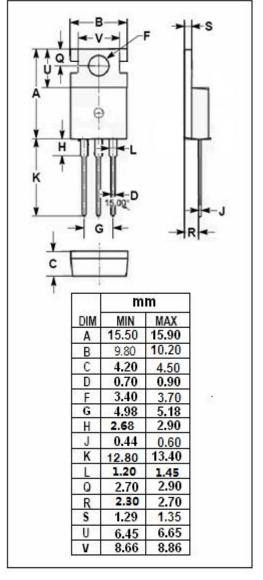
• Designed for use in large screen color deflection circuits.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector- Emitter Voltage(V _{BE} = 0)	age(V _{BE} = 0) 1500	
V _{CEO}	Collector-Emitter Voltage	700	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current- Continuous	8	Α
I _{CM}	Collector Current-Peak	15	А
lΒ	Base Current- Continuous	4	Α
I _{BM}	Base Current-Peak	6	А
Pc	Collector Power Dissipation @ T _C =25 °C 60		W
Тл	unction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range -65		${\mathbb C}$

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.2	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=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 = 2.0A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 2.0A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1300V; V _{BE} = 0 V _{CE} = 1300V; V _{BE} = 0; T _C =125°C			0.1 2.0	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5.0V; I _C = 0			10	mA
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	6		30	
h _{FE-2}	DC Current Gain	I _C = 4.5A; V _{CE} = 5V	2.25			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 0.1MHz		125		pF
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V; f _{test} = 1.0MHz		7		MHz

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