

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

BU1508AF

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 700V(Min.)
- High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

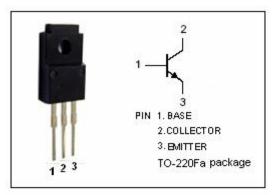
Designed for use in horizontal deflection circuits of color TV receivers.

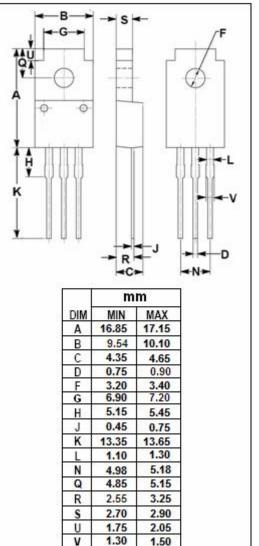
SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Base Voltage V _{BE} = 0	1500	V
V _{CEO}	Collector-Emitter Voltage	700	v
V _{EBO}	Emitter-Base Voltage	7.5	V
Ι _C	Collector Current-Continuous	8	A
I _{СМ}	Collector Current-Peak	15	A
I _B	Base Current-Continuous	4	А
I _{BM}	Base Current-peak	6	A
Pc	Collector Power Dissipation @T _c =25℃	35	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	OL PARAMETER		UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	3.6	°C /W	





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	700			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7.5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4.5A; I _B = 1.1A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 1.7A			1.1	V
I _{CES}	Collector Cutoff Current	V _{CE} = V _{CES} ; V _{BE} = 0 V _{CE} = V _{CES} ; V _{BE} = 0;T _C =125°C			1.0 2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.5V; I _C = 0			1.0	mA
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V		13		
h _{FE-2}	DC Current Gain	I _C = 4.5A ; V _{CE} = 1V	4		7	
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1МНz		80		pF

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