

isc Silicon NPN Power Transistor

BU508AF

DESCRIPTION

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

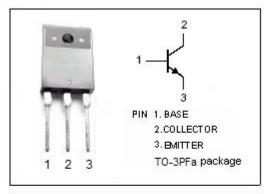
APPLICATIONS

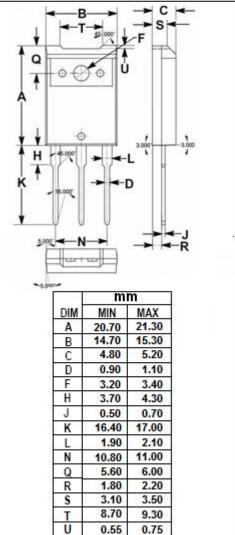
Designed for use in horizontal deflection circuits of color TV receivers.

ABSOLUTE WAXIMUWI KATINGS(Ta=25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CES}	Collector- Emitter Voltage(V _{BE} = 0)	1500	v				
V _{CEO}	Collector-Emitter Voltage	700	v				
V _{EBO}	Emitter-Base Voltage	5	V				
Ic	Collector Current- Continuous	8	А				
I _{CM}	Collector Current-Peak	15	А				
I _B	Base Current- Continuous	4	А				
I _{BM}	Base Current-Peak	6	А				
Pc	Collector Power Dissipation @ T_c =25 °C	60	W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-65~150	°C				
	1	1					

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER		UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	





isc website: <u>www.iscsemi.com</u>



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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} = 1500V; V _{BE} = 0 V _{CE} = 1500V; V _{BE} = 0; T _C =125°C			1.0 2.0	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5.0V ; I _C = 0			10	mA
h _{FE-1}	DC Current Gain	Ic= 0.1A ; Vce= 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⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V; f _{test} = 1.0MHz		7		MHz

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