

isc Silicon NPN Power Transistor

BU2506AF

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

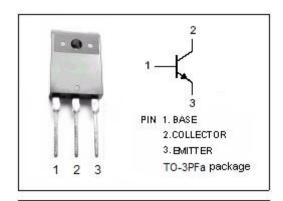
APPLICATIONS

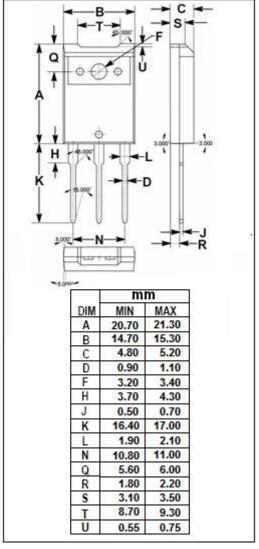
 Designed for use in horizontal deflection circuits of color TV receivers.



SYMBOL	PARAMETER	VALUE	JE UNIT	
V _{CES}	Collector- Emitter Voltage(V _{BE} = 0)	1500	V	
V _{CEO}	Collector-Emitter Voltage	700	V	
V _{EBO}	Emitter-Base Voltage	7.5	V	
Ic	Collector Current- Continuous	5	Α	
I _{CM}	Collector Current-Peak	8	Α	
lв	Base Current- Continuous	3	А	
Івм	Base Current-Peak	5	Α	
Pc	Collector Power Dissipation @ T _c =25°C	45	W	
Тл	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.8	°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 _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7.5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.79A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.79A			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} = 7.5V ; I _C = 0			1.0	mA
h _{FE-1}	DC Current Gain	I _C = 0.3A ; V _{CE} = 5V		12		
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	3.8		7.5	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		47		pF

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