

isc Silicon NPN Power Transistor

BU2507AF

DESCRIPTION

- · High Switching Speed
- High Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for use in horizontal deflection circuits of coluor TV receivers and computer monitors.

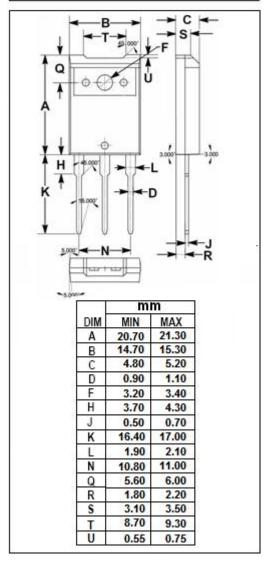
PIN 1. BASE 2. COLLECTOR 3. BMITTER 1 2 3 TO-3PFa package

ABSOLUTE MAXIMUM RATINGS (T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CESM}	Collector-Emitter Voltage V _{BE} =0		
V _{CEO}	Collector-Emitter Voltage		
V _{EBO}	Emitter-Base Voltage	7.5	V
Ic	Collector Current-Continuous	8	А
Ісм	Collector Current-peak	eak 15	
I _B	Base Current-Continuous	4	Α
I _{BM}	Base Current-peak	6	А
Pc	Collector Power Dissipation @T _C =25°C	45	W
T _j	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

	SYMBOL	YMBOL PARAMETER		UNIT
R _{th j-c}		Thermal Resistance, Junction to Case	2.8	K/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,L= 25mH	700			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7.5			٧
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A ;I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A ;I _B = 0.8A			1.1	٧
I _{CES}	Collector Cutoff Current	V _{CE} = BV _{CES;} V _{BE} = 0 V _{CE} = BV _{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 = 100mA; V _{CE} = 5V		17		
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 5V	5	7	9	
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f _{test} = 1MHz		68		pF

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