

ISC Silicon NPN Power Transistor

BU1506DF

DESCRIPTION

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

APPLICATIONS

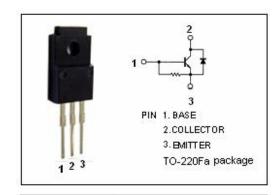
 Designed for use in horizontal deflection circuits of color TV receivers.

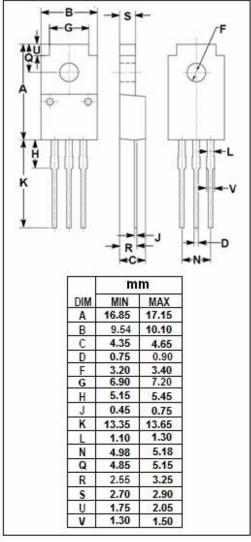
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
Vces	Collector-Base 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	
I _B	Base Current-Continuous	3	Α	
I _{BM}	Base Current-peak	8	Α	
Pc	Collector Power Dissipation @T _C =25°C	32	W	
T _j	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	4.0	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=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 = 600mA; 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} = 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	90		180	
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	
V _{ECF}	C-E Diode Forward Voltage	I _F = 3A			2.0	V

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