

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

BU2525DF

DESCRIPTION

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

APPLICATIONS

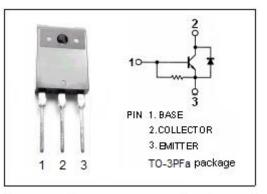
Designed for use in horizontal deflection circuits of color TV receivers.

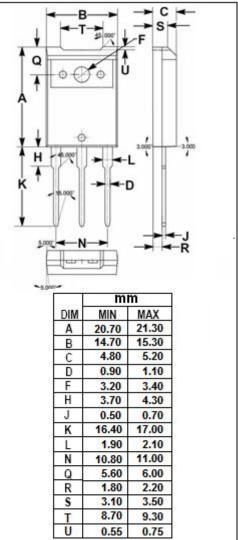
SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Base Voltage VBE= 0	1500	V
V _{CEO}	Collector-Emitter Voltage	800	v
V _{EBO}	Emitter-Base Voltage	7.5	V
lc	Collector Current-Continuous	12	A
I _{CM}	Collector Current-Peak	30	A
I _B	Base Current-Continuous	8	А
I _{BM}	Base Current-peak	12	A
Pc	Collector Power Dissipation @T _C =25℃	45	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.8	°C/W







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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	800			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 = 8A; I _B = 1.6A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			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} = 6V; I _C = 0	72		218	
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V		11		
h _{FE-2}	DC Current Gain	I _C = 8A ; V _{CE} = 5V	5		9.5	
VECF	C-E Diode Forward Voltage	I _F = 8A			2.0	V

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