

isc Silicon NPN Power Transistor

BU2527DF

DESCRIPTION

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

APPLICATIONS

 Designed for use in horizontal deflection circuits of high resolution monitors.

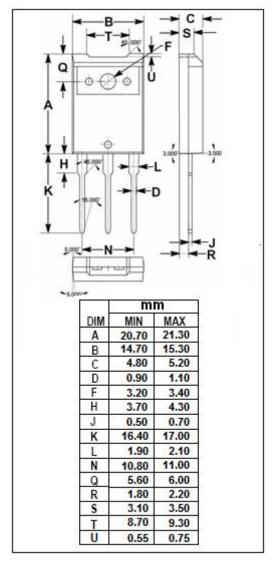
PIN 1. BASE 2.COLLECTOR 3. BMITTER 1 2 3 TO-3PFa package

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7.5	V
Ic	Collector Current-Continuous	12	А
I _{CM}	Collector Current-peak	30	Α
lΒ	Base Current-Continuous	8	Α
I _{BM}	Base Current-peak	12	А
Pc	Collector Power Dissipation @T _C =25°C	45	W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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	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} = BV _{CES} ; V _{BE} = 0 V _{CE} = BV _{CES} ; V _{BE} = 0;T _C =125 °C			1.0 2.0	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0		110		mA
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	7	10	
V _{ECF}	C-E Diode Forward Voltage	I _F = 8A			2.0	V
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		145		pF

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