

isc Silicon NPN Power Transistor

BU2527A

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 800V (Min)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

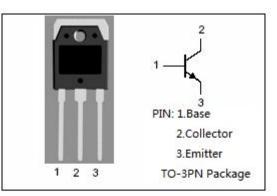
• Designed for use in horizontal deflection circuits of large screen colour television receivers up to 64 KHz.

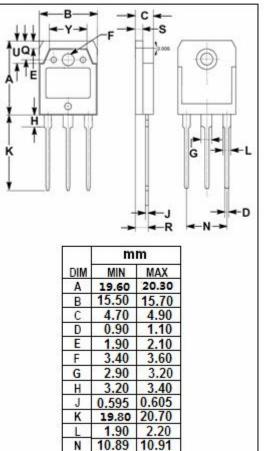
SYMBOL	PARAMETER	VALUE	UNIT	
V _{CESM}	Collector- Emitter Voltage Peak value	1500	V	
V_{CEO}	Collector-Emitter Voltage	800	v	
V _{EBO}	Emitter-Base Voltage	7.5	V	
lc	Collector Current- Continuous	12	A	
I _{CM}	Collector Current-Peak	30	А	
I _B	Base Current- Continuous	8	А	
I _{BM}	Base Current-Peak	12	А	
Pc	Collector Power Dissipation @ T _c =25°C	125	W	
TJ	Junction Temperature	150	°C	
Tstg	Storage Temperature Range	-65~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W





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Y

4.90

3.35

1.995

5.10

3.45

2.100

5.90 6.20

9.90 10.10



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
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 = 6A; I _B = 1.2A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.3	V
ICES	Collector Cutoff Current	V _{CE} = 1500V; V _{BE} = 0 V _{CE} = 1500V; V _{BE} = 0; T _C =125℃			0.25 2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.5V; I _C = 0			0.25	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	6		21	
h _{FE-2}	DC Current Gain	I _C = 6A; V _{CE} = 5V	5		9	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		145		pF

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