

NPN BU2508AF

NPN SILICON POWER TRANSISTORS

The BU2508AF is silicon power transistor mounted in Jedec TO-3PF plastic package. They are designed for use in horizontal deflection circuits of color TV receivers. Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings	Value	Unit
V _{CES}	Collector- Emitter Voltage(V _{BE} = 0)	1500	V
V _{CEO}	Collector-Emitter Voltage	700	V
V _{EBO}	Emitter-Base Voltage	7.5	V
lc	Collector Current- Continuous	8	Α
I _{CM}	Collector Current-Peak	15	Α
I _B	Base Current- Continuous	4	Α
I _{BM}	Base Current-Peak	6	Α
Pc	Collector Power Dissipation @ T _C =25°C	45	W
TJ	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R _{th j-c}	Thermal Resistance,Junction to Case	2.5	°C/W



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ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Тур	Max	Unit
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I_{C} = 100mA I_{B} = 0, L= 25mH	700	-	-	V
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 = 4.5A I _B = 1.1A	-	-	1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.5A I _B = 1.7A	:=:	-	1.1	V
213 T	Collector Cutoff Current	V _{CE} = 1500V V _{BE} = 0	<u> </u>	_	1.0	ъ А
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V, V _{BE} = 0 T _C =125°C	120	-	2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.5V I _C = 0	(4)	-	1.0	mA
h _{FE}	DC Current Gain	I _C = 0.1A V _{CE} = 5V	23	13	-	=
h _{FE}	DC Current Gain	I _C = 4.5A V _{CE} = 1V	4	-	7	-
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V f _{test} = 1MHz	:=:	80	-	pF

Switching times

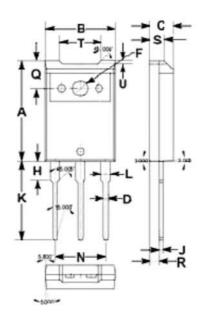
t _{stg}	Storage Time	I _C = 4.5A , I _{B(end)} = 1.1A L _B = 6μΗ	=1	-	6.0	μs
t _f	Fall Time	-V _{BB} = 4V; (-dI _B /dt= 0.6A/μs)	-	-	0.6	μs



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MECHANICAL DATA CASE TO-3P (TO-218)

Dim.	mı	m
	MIN	MAX
Α	20.70	21.30
В	14.70	15.30
С	4.80	5.20
B C D F	0.90	1.10
F	3.20	3.40
H J K L N	3.70	4.30
J	0.50	0.70
K	16.40	17.00
L	1.90	2.10
N	10.80	11.00
Q	5.60	6.00
R	1.80	2.20
Q R S T	3.10	3.50
T	8.70	9.30
U	0.55	0.75



Emitter	Pin 1 :
Base	Pin 2 :
Collector	Pin 3 :



Revised september 2012

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