

UTC BU508AFI NPN EPITAXIAL SILICON TRANSISTOR

SILICON DIFFUSED POWER TRANSISTOR

DESCRIPTION

The UTC BU508AFI is high voltage, high speed switching NPN transistors in a plastic envelope, primarily for use in horizontal deflection circuits of colour television receivers.



TO-3PML

1. BASE
2. COLLECTOR
3. EMITTER

1 2 3

Features

- * TV color horizontal deflection.
- * With TO-3PML fully isolated package.

Absolute Maximum Rating T_c=25°C

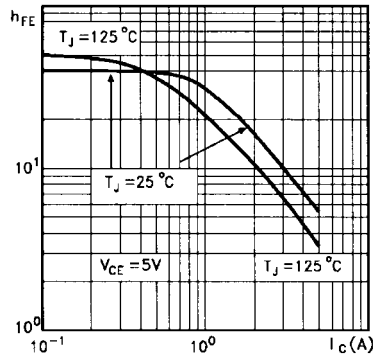
PARAMETER	SYMBOL	VALUE	UNIT
Collector-base voltage(V _{BE} =0)	V _{CBO}	1500	V
Collector-emitter voltage(I _B =0)	V _{CEO}	700	V
Emitter-base Voltage(I _C =0)	V _{EBO}	10	V
Collector peak current	I _{cp}	15	A
Collector current	I _C	8	A
Collector power dissipation	P _c	60	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-65~150	°C

ELECTRICAL CHARACTERISTICS T_c=25°C

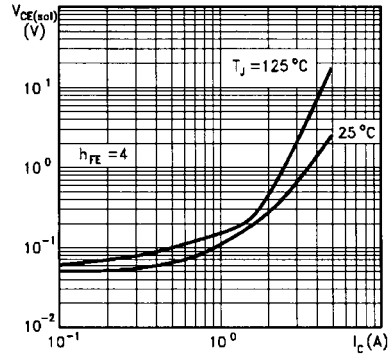
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-base cut off current	I _{CBO}	V _{CE} =1500V, V _{BE} =0		2.0	mA
Emitter-base cut off current	I _{EBO}	V _{EB} =5V, I _C =0		100	uA
Collector-emitter Sustaining voltage	V _{CEO(SUS)}	I _C =100mA, I _B =0	700		V
Emitter-base breakdown voltage	V _{EBO}	I _E =10mA, I _C =0	10		V
Collector-emitter saturation voltage	V _{CE(SAT)}	I _C =4.5A, I _B =2A		1.0	V
Base-emitter saturation voltage	V _{BE(SAT)}	I _C =4.5A, I _B =2A		1.3	V
Base current peak value	H _{FE}	I _C =100mA, V _{CE} =5V	6	30	

UTCBU508AF1 NPN EPITAXIAL SILICON TRANSISTOR

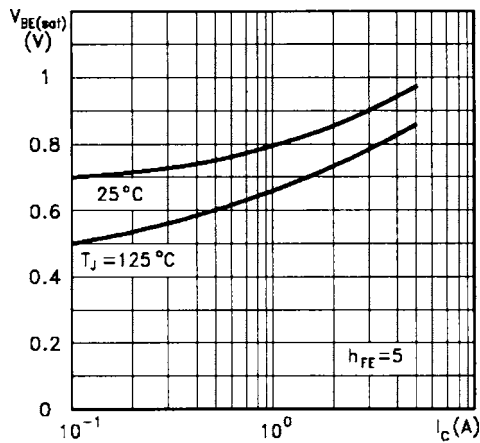
DC Current Gain



Collector Emitter Saturation Voltage



Base Emitter Saturation Voltage



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