

UTC BU407

NPN EXPITAXIAL PLANAR TRANSISTOR

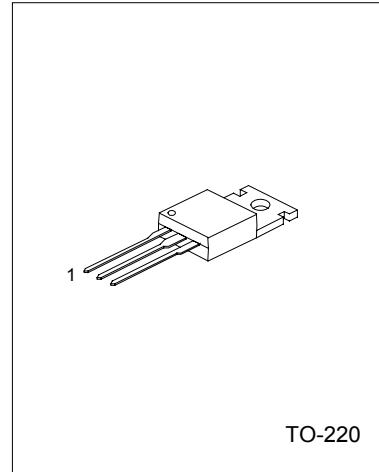
NPN EXPITAXIAL PLANAR TRANSISTOR

DESCRIPTION

The UTC BU407 is a NPN expitaxial planar transistor, designed for use in TV Horizontal output and switching applications.

FEATURE

*High breakdown voltage



TO-220

1:BASE 2:COLLECTOR 3:EMITTER

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Collector Base Voltage	V_{CBO}	330	V
Collector to Emitter Voltage	V_{CEO}	150	V
Emitter To Base Voltage	V_{EBO}	6	V
Collector Current	I_C	7	A
Base Current	I_B	4	A
Collector Dissipation ($T_a=25^\circ\text{C}$)	P_c	60	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-50 ~ +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage	V_{CE0}	$I_C=100\text{mA}$, $I_B=0$	150			V
Collect Cutoff Current	I_{CES}	$V_{CE}=400\text{V}$			5	mA
Emitter Cutoff Current	I_{EBO}	$V_{BE}=6\text{V}$, $I_C=0$			1	mA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=5\text{A}$, $I_B=0.5\text{A}$			1	V
Base-Emitter On Voltage	$V_{BE(sat)}$	$I_C=5\text{A}$, $I_B=0.5\text{A}$			1.2	V
DC Current Gain	HFE1	$I_C=500\text{mA}$, $V_{CE}=5\text{V}$	25			
	HFE2	$I_C=2\text{A}$, $V_{CE}=5\text{V}$	35		200	
	HFE3	$I_C=5\text{A}$, $V_{CE}=5\text{V}$	10			
Current Gain Bandwidth Product	fT	$I_C=500\text{mA}$, $V_{CE}=10\text{V}$ f=1MHz	10			MHz

CLASSIFICATION OF hFE2

RANK	B	C	D
RANGE	35-85	75-125	115-200

UTC

UNISONIC TECHNOLOGIES CO. LTD

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QW-R203-020,A

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