

UTC BU407

NPN EXPITAXIAL PLANAR TRANSISTOR

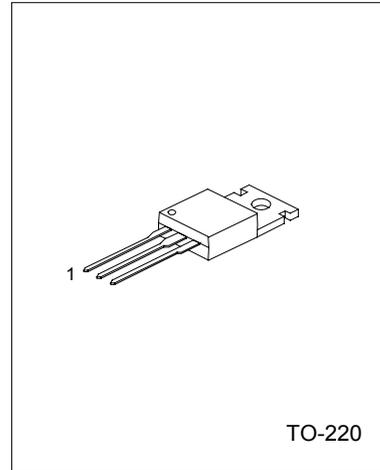
NPN EXPITAXIAL PLANAR TRANSISTOR

DESCRIPTION

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

FEATURE

*High breakdown voltage



1:BASE 2:COLLECTOR 3:EMITTER

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Collector Base Voltage	V _{CB0}	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°C)	P _c	60	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-50 ~ +150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage	V _{CE0}	I _C =100mA, I _B =0	150			V
Collect Cutoff Current	I _{CEs}	V _{CE} =400V			5	mA
Emitter Cutoff Current	I _{EBO}	V _{BE} =6V, I _C =0			1	mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =5A, I _B =0.5A			1	V
Base-Emitter On Voltage	V _{BE(sat)}	I _C =5A, I _B =0.5A			1.2	V
DC Current Gain	HFE1	I _C =500mA, V _{CE} =5V	25			
	HFE2	I _C =2A, V _{CE} =5V	35		200	
	HFE3	I _C =5A, V _{CE} =5V	10			
Current Gain Bandwidth Product	f _T	I _C =500mA, V _{CE} =10V f=1MHz	10			MHz

CLASSIFICATION OF hFE2

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

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.