UTC UNISONIC TECHNOLOGIES CO., LTD

BU407

NPN SILICON TRANSISTOR

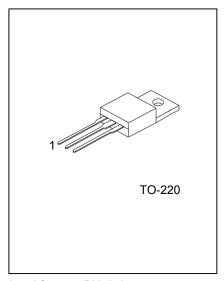
NPN EXPITAXIAL PLANAR TRANSISTOR

DESCRIPTION

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

FEATURES

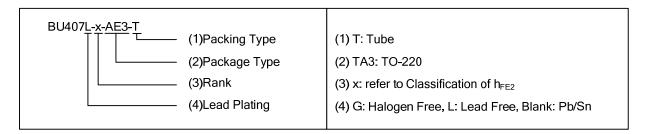
* High breakdown voltage



BU407L Lead-free: Halogen-free: BU407G

ORDERING INFORMATION

	Dookogo	Pin Assignment			Dooking			
Normal	Lead Free Plating	Halogen Free	Package	1	2	3	Packing	
BU407-x-TA3-T	BU407L-x-TA3-T	BU407G-x-TA3-T	TO-220	В	С	Е	Tube	



■ **ABSOLUTE MAXIMUM RATINGS** (T_a=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector Base Voltage		330	V
Collector to Emitter Voltage		150	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current	Ic	7	Α
Base Current	I_{B}	4	Α
Collector Dissipation (T _a =25°C)	Pc	60	W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Junction to Ambient	θ_{JA}			70	°C/W
Junction to Case	$\theta_{ m JC}$			2.08	°C/W

■ **ELECTRICAL CHARACTERISTICS** (T_a=25°C, unless otherwise specified)

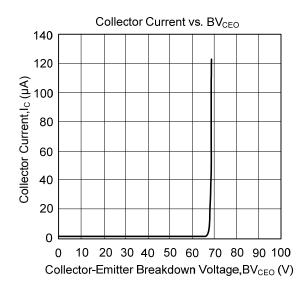
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage	BV_CEO	$I_C = 100 \text{ mA}, I_B = 0$	150			V
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	I _C = 5 A, I _B = 0.5 A			1	V
Base-Emitter On Voltage	$V_{BE(SAT)}$	IC = 5 A, IB = 0.5 A			1.2	V
Collect Cutoff Current'	I _{CES}	V _{CE} =400 V			5	mA
Emitter Cutoff Current	I _{EBO}	$V_{BE} = 6 \text{ V}, I_{C} = 0$			1	mA
	h _{FE1}	I _C = 500 mA, V _{CE} = 5 V	25			
DC Current Gain	h _{FE2}	$I_C = 2 A, V_{CE} = 5 V$	35		200	
	h _{FE3}	$I_C = 5 A, V_{CE} = 5 V$	10			
Current Gain Bandwidth Product	f_T	I _C = 500 mA, V _{CE} = 10 V, f =1 MHz	10			MH_Z

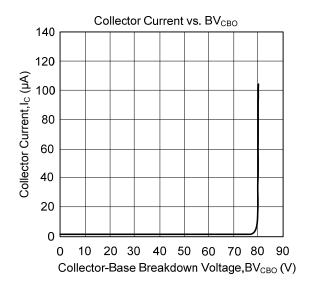
■ CLASSIFICATION OF h_{FE2}

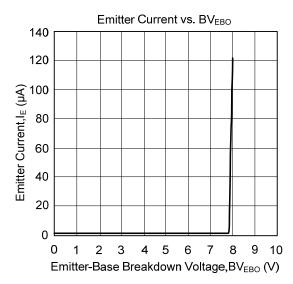
RANK	В	С	D
RANGE	35-85	75-125	115-200



■ TYPICAL CHARACTERISTICS







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