

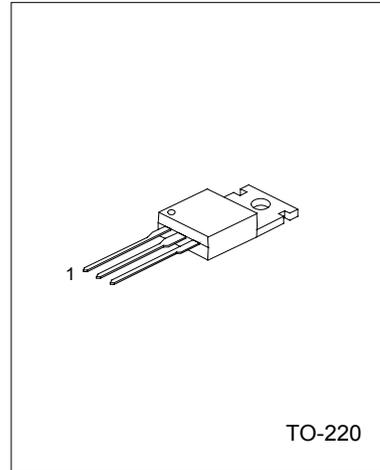
UTC D313

NPN EPITAXIAL PLANAR TRANSISTOR

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DESCRIPTION

The UTC D313 is designed for use in general purpose amplifier and switching applications.



1:BASE 2:COLLECTOR 3:EMITTER

ABSOLUTE MAXIMUM RATINGS

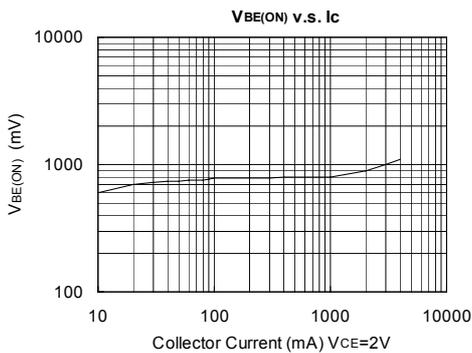
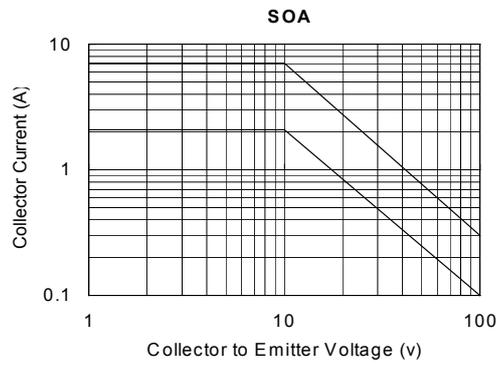
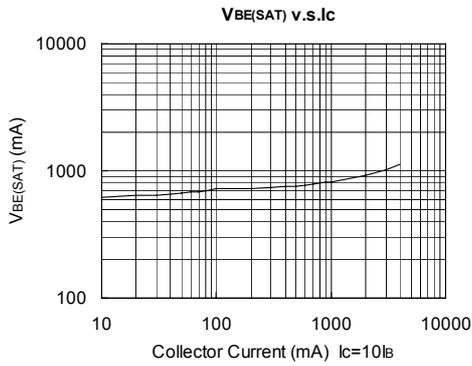
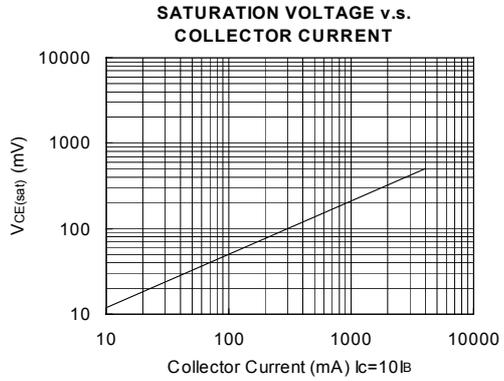
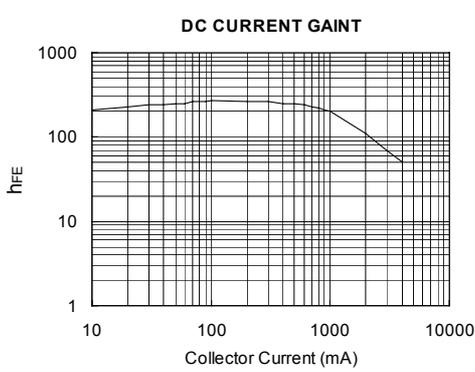
PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	VCBO	60	V
Collector-Emitter Voltage	VCEO	60	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	Ic	3	A
Storage Temperature	T _{STG}	-55 ~ +150	°C
Junction Temperature	T _j	150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BVCBO	I _C =1mA	60			V
Collector-Emitter Breakdown Voltage	BVCEO	I _C =10mA	60			V
Emitter-Base Breakdown Voltage	BVEBO	I _E =100uA	5			V
Collector Cut-Off Current	ICBO	V _{CB} =20V, I _E =0			0.1	mA
Emitter Cut-Off Current	IEBO	V _{EB} =4V, I _C =0			1.0	mA
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =2A, I _B =0.2A			1.0	V
Base-Emitter On voltage	V _{BE(ON)}	V _{CE} =2V, I _C =1A			1.5	V
DC Current Gain	h _{FE}	I _C =1A, V _{CE} =2V	40		320	
		I _C =0.1A, V _{CE} =2V	40			

CLASSIFICATION ON h_{FE}

RANK	C	D	E	F
RANGE	40-80	60-120	100-200	160-320



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