

UTC UNISONIC TECHNOLOGIES CO., LTD

2SB1017

Preliminary

PNP EPITAXIAL SILICON TRANSISTOR

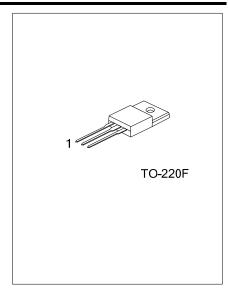
PNP SILICON EPITAXIAL TRANSISTOR

DESCRIPTION

The UTC 2SB1017 is a PNP silicon epitaxial transistor suited to be used in power amplifier applications.

FEATURES

* Low base drive



ORDERING INFORMATION

Ordering Number		Deelvege	Pin Assignment			Dealders	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SB1017L-x-TF3-T	2SB1017G-x-TF3-T	TO-220F	В	С	Е	Tube	

2SB1017L-x-TF3-T (1)Packing Type (2)Package Type (3)Rank (4)Lead Free	 (1) T: Tube (2) TF3: TO-220F (3) x: refer to Classification of hFE (4) Halogen Free, L: Lead Free
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Preliminary PNP EPITAXIAL SILICON TRANSISTOR

■ ABSOLUTE MAXIMUM RATINGS (T_c=25°C, unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-80	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	Ι _C	-4	А
Base Current	I _B	-0.4	А
Collector Dissipation (T _C =25°C)	Pc	25	W
Junction Temperature	TJ	150	°C
Storage Temperature	T _{ST}	-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.

■ ELECTRICAL CHARACTERISTICS (T_c=25°C, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-50mA, I _B =0	-80			V
Collector Cut-off Current	I _{CBO}	V _{CB} =-80V, I _E =0			-30	μA
Emitter Cut-off Current	I _{EBO}	V_{EB} =-5V, I _C =0			-100	μA
DC Current Gain	h _{FE1}	V _{CE} =-5V, I _C =-0.5A	40		240	
	h _{FE2}	V _{CE} =-5V, I _C =-3A	15			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-3A, I _B =-0.3A		-1	-1.7	V
Base-Emitter ON Voltage	V _{BE(on)}	V _{CE} =-5V, I _C =-3A		-1	-1.5	V
Current Gain Bandwidth Product	f⊤	V _{CE} =-5V, I _C =-0.5A		9		MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, f=1MHz		130		рF

■ H_{FE} CLASSIFICATION

Classification	R	0	Y
h _{FE1}	40 ~ 80	70 ~ 140	120 ~ 240

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