

UNISONIC TECHNOLOGIES CO., LTD

UP1620

Preliminary

PNP EPITAXIAL SILICON TRANSISTOR

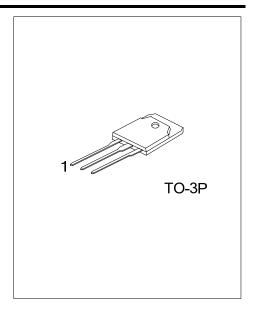
PNP SILICON POWER TRANSISTOR

DESCRIPTION

The UTC UP1620 is a silicon PNP silicon power transistor, it uses UTC's advanced technology to provide the customers with high collector-emitter breakdown voltage and ultra-high DC current

FEATURES

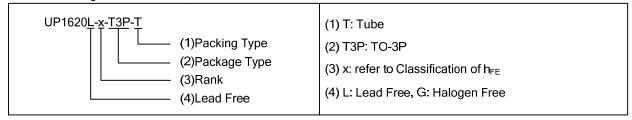
- * High collector-emitter breakdown voltage
- * Ultra-high DC current gain



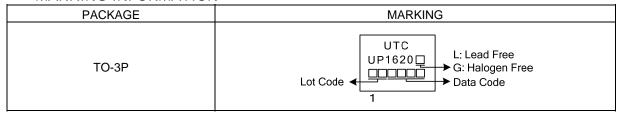
ORDERING INFORMATION

Ordering	Number	Dookogo	Pin Assignment		Pin Assignment		Dooking
Lead Free	Halogen Free	Package	1	2	3	Packing	
UP1620L-x-T3P-T	UP1620G-x-T3P-T	TO-3P	В	С	Е	Tube	

Pin Assignment: A: Anode, K: Cathode Note:



MARKING INFORMATION



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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-160	V
Collector-Emitter Voltage	V_{CEO}	-150	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-10	Α
Base Current	I _B	-1	Α
Collector Power Dissipation (T _C =25°C)	Pc	150	W
Junction Temperature	TJ	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.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CBO}	V _{CB} =-160V, I _E =0A			-100	μΑ
Emitter Cut-Off Current	I _{EBO}	V_{EB} =-5 V , I_{C} =0 A			-100	μΑ
Collector-Emitter Voltage	V_{CEO}	I _C =-30mA	-150			V
DC Current Gain	h _{FE}	V_{CE} =-4V, I_{C} =-7A	5000		30000	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-7A$, $I_B=-7mA$			-2.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I _C =-7A, I _B =-7mA			-3.0	V
Current Gain Bandwidth Product	f _T	V _{CE} =-12V, I _E =-2A		50		MHz
Output Capacitance	Cob	V _{CB} =-10V, f=1MHz, I _E =0A		230		pF

CLASSIFICATION OF h_{FE}

RANK	0	Р	Υ
RANGE	5000 ~ 12000	6500 ~ 20000	15000 ~ 30000

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