UTC UNISONIC TECHNOLOGIES CO., LTD

ULB121

NPN SILICON TRANSISTOR

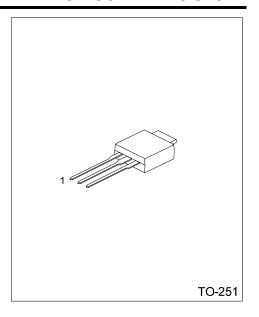
NPN TRIPLE DIFFUSED PLANAR TYPE HIGH VOLTAGE **TRANSISTOR**

DESCRIPTION

The UTC ULB121 is a medium power transistor designed for use in switching applications.

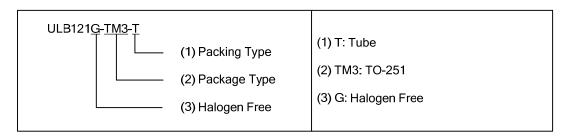
FEATURES

- * High breakdown voltage
- * Low collector saturation voltage
- * Fast switching speed
- * Halogen Free



ORDERING INFORMATION

Ordering Number	Package	Pi	n Assignme	Dooking	
		1	2	3	Packing
ULB121G-TM3-T	TO-251	В	С	E	Tube



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■ ABSOLUTE MAXIMUM RATING (T_A=25°C)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	600	V
Collector-Emitter Voltage		V_{CEO}	400	V
Emitter-Base Voltage		V_{EBO}	6	V
Calla star Current	DC		300	mA
Collector Current	Pulse	I _C	600	mA
Base Current	DC		40	mA
Base Current	Pulse	I _B	100	mA
Total Power Dissipation (T _C =25°C)		P_{D}	10	W
Junction Temperature		TJ	150	°C
Storage Temperature		T _{STG}	-40 ~ +150	°C

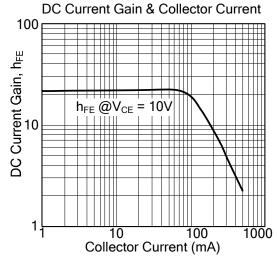
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

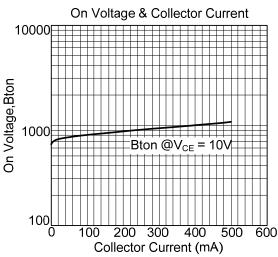
■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified.)

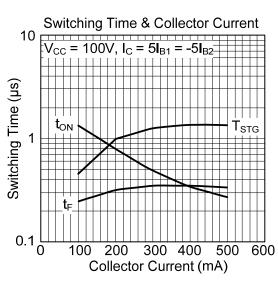
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT			
OFF CHARACTERISTICS									
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100μA	600			V			
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =10mA	400			V			
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =10μA	6			V			
Collector Cutoff Current	I _{CBO}	V _{CB} =550V			10	μΑ			
Collector Cutoff Current	I _{CEO}	V _{CB} =400V			10	μΑ			
Emitter Cutoff Current	I _{EBO}	V _{EB} =6V			10	μΑ			
ON CHARACTERISTICS									
DC Commant Cain (Nata)	h _{FE1}	V _{CE} =10V, I _C =10mA	8						
DC Current Gain(Note)	h _{FE2}	V _{CE} =10V, I _C =50mA	10		36				
Collector-Emitter Saturation Voltage (Note)	V _{CE(SAT)}	I _C =50mA, I _B =10mA			400	m\/			
		I _C =100mA, I _B =20mA			750	mV			
Base-Emitter Saturation Voltage (Note)	V _{BE(SAT)}	I _C =50mA, I _B =10mA			1	V			

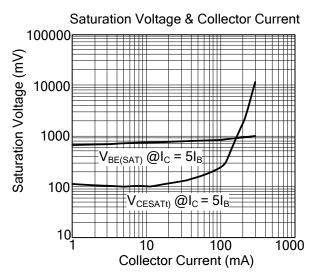
Note: Pulse Test : Pulse Width ≤380µs, Duty Cycle≤2%

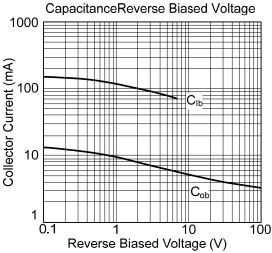
TYPICAL CHARACTERISTICS

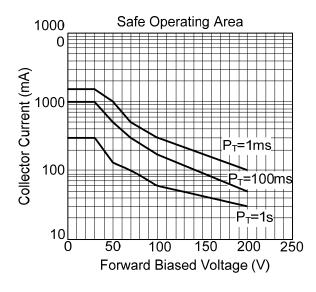












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