

UNISONIC TECHNOLOGIES CO., LTD

2SC2073

Preliminary

NPN EPITAXIAL SILICON TRANSISTOR

NPN SILICON POWER **TRANSISTORS**

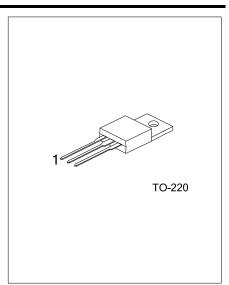
DESCRIPTION

The UTC 2SC2073 is an NPN silicon power transistors, it uses UTC's advanced technology to provide customers with high collector base voltage, etc.

The UTC 2SC2073 is suitable for general purpose Power amplifier, vertical output application.



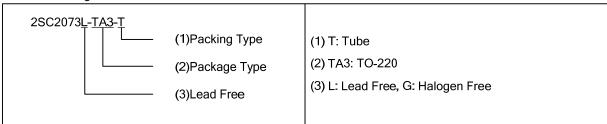
^{*} High collector base voltage



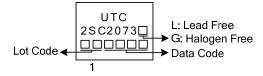
ORDERING INFORMATION

Ordering Number		Daalaaaa	Pin Assignment			Danking
Lead Free	Halogen Free	Package	1	2	3	Packing
2SC2073L- TA3-T	2SC2073G-TA3-T	TO-220	В	С	Е	Tube

Note: Pin Assignment: B: Base C: Collector E: Emitter



MARKING



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ABSOLUTE MAXIMUM RATINGS

PARAMETER		SYMBOL	RATINGS	UNIT	
Collector-Base Voltage		V_{CBO}	150	V	
Collector-Emitter Voltage		V_{CEO}	150	V	
Emitter-Base Voltage		V_{EBO}	5.0	V	
Collector Current	Continuous	Ic	1.5	Α	
	Peak	I _{CM}	3.0	Α	
Base Current		I _B	0.5	Α	
Total Power Dissipation @ T _C =25°C		D	25	W	
Derate above 25°C		P _D	0.2	W/°C	
Junction Temperature	nction Temperature T _J		-55~+150	°C	
Storage Temperature		T _{STG}	-55~+150	°C	

Notes: 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 CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction-to-Case	θ_{JC}	5.0	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT			
OFF CHARACTERISTICS								
BV_{CBO}	I _C =1.0mA, I _B =0	150			V			
BV_CEO	I _C =5.0mA, I _B =0	150			V			
BV_{EBO}	I _B =1.0mA, I _C =0	5.0			V			
I _{CBO}	V _{CB} =120V, I _E =0			10	μΑ			
I _{EBO}	V _{EB} =5.0V, I _C =0			10	μΑ			
ON CHARACTERISTICS (Note 1)								
h _{FE}	V _{CE} =10V, I _C =0.5A	40		140				
$V_{CE(SAT)}$	I _C =0.5A, I _B =50mA			1.5	V			
$V_{BE(ON)}$	I _C =500mA, V _{CE} =10V	0.65		0.85	V			
DYNAMIC CHARACTERISTICS								
f _T	I _C =0.5A,V _{CE} =10V, f=1.0MHz	4.0			MHz			
	BV _{CBO} BV _{EBO} BV _{EBO} I _{CBO} I _{EBO} N _{FE} V _{CE(SAT)} V _{BE(ON)}	BV _{CBO} I _C =1.0mA, I _B =0 BV _{CEO} I _C =5.0mA, I _B =0 BV _{EBO} I _B =1.0mA, I _C =0 I _{CBO} V _{CB} =120V, I _C =0 I _{EBO} V _{EB} =5.0V, I _C =0 h _{FE} V _{CE} =10V, I _C =0.5A V _{CE(SAT)} I _C =0.5A, I _B =50mA V _{BE(ON)} I _C =500mA, V _{CE} =10V	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			

Notes: Pulse Test: Pulse Width=300µs, Duty Cycle≤2.0%.

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