

UNISONIC TECHNOLOGIES CO., LTD

2SC2073

Preliminary

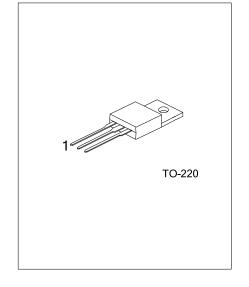
NPN EPITAXIAL SILICON TRANSISTOR

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.

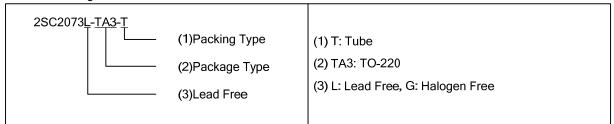


FEATURES

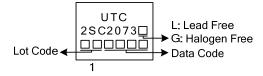
ORDERING INFORMATION

Ordering Number		Daakasa	Pin Assignment			Da alsia si	
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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^{*} High collector base voltage

ABSOLUTE MAXIMUM RATINGS

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