

UNISONIC TECHNOLOGIES CO., LTD

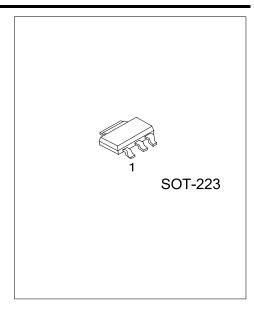
PZTA06

NPN SILICON TRANSISTOR

AMPLIFIER TRANSISTOR

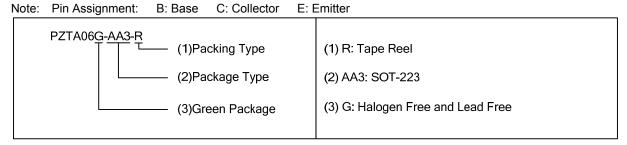
FEATURES

- * Collector-Emitter Voltage: V_{CEO}=80V
- * Collector Dissipation: PD=350mW



ORDERING INFORMATION

Ordering Number	Package	Pin Assignment			Dooking	
		1	2	3	Packing	
PZTA06G-AA3-R	SOT-223	В	С	Е	Tape Reel	



MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector Base Voltage	V_{CBO}	80	V
Collector Emitter Voltage	V_{CEO}	80	V
Emitter Base Voltage	V _{EBO}	4	V
Collector Current - Continuous	Ic	500	mA
Total Device Dissipation (Note 2)	D	1000	mW
Derate Above 25°C	P _D	8	mW/°C
Junction Temperature	TJ	+150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

Notes: 1. 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 DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	125	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT		
OFF CHARACTERISTICS							
BV _{CEO}	I _C =1.0mA, I _B =0	80			V		
BV _{EBO}	I _E =100μA, I _C =0	4			V		
I _{CES}	V _{CE} =60V, I _B =0			0.1	μΑ		
I _{CBO}	V _{CB} =80V, I _E =0			0.1	μΑ		
ON CHARACTERISTICS							
h _{FE}	V _{CE} =1V , I _C =10mA,	100					
	V _{CE} =1V , I _C =100mA,	100					
V _{CE(SAT)}	I _C =100mA, I _B =10mA			0.25	V		
$V_{BE(ON)}$	V _{CE} =1V , I _C =100mA,			1.2	V		
SMALL-SIGNAL CHARACTERISTICS							
f_T	V _{CE} =2V, I _C =10mA, f=100MHz	100			MHz		
	BVCEO BVEBO ICES ICBO hFE VCE(SAT) VBE(ON)	BV _{CEO} I _C =1.0mA, I _B =0 BV _{EBO} I _E =100μA, I _C =0 I _{CES} V _{CE} =60V, I _B =0 I _{CBO} V _{CB} =80V, I _E =0 h _{FE} V _{CE} =1V , I _C =10mA, V _{CE} =1V , I _C =100mA,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

Notes: 1. Pulse test: P_W ≤ 300µs, Duty Cycle ≤ 2%

^{2.} Device is mounted on FR-4 PCB 36×18×1.5 mm, mounting pad for the collector lead minimum 6 cm².

^{2.} f_T is defined as the frequency at which Ihfel extrapolates to unity.

SWITCHING TIME TEST CIRCUITS

TURN-ON TIME

TURN-OFF TIME

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