

UNISONIC TECHNOLOGIES CO., LTD

UFZT957

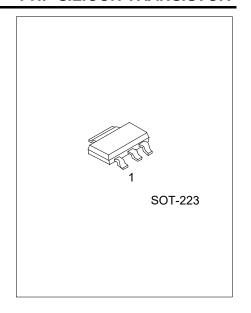
Preliminary

PNP SILICON TRANSISTOR

PNP SILICON PLANAR HIGH CURRENT (HIGH PERFORMANCE) TRANSISTORS

■ FEATURES

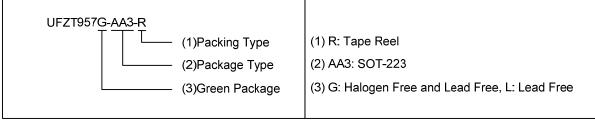
- * 1 Amp continuous current
- * Up to 2 Amps peak current
- * Very low saturation voltage
- * Excellent gain characteristics specified up to 1 Amp



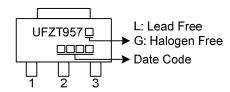
ORDERING INFORMATION

Ordering Number		Desterns	Pin Assignment			Da alsina	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UFZT957L-AA3-R	UFZT957G-AA3-R	SOT-223	В	С	Е	Tape Reel	

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



MARKING



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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V _{CBO}	-330	٧
Collector-Emitter Voltage		Vceo	-300	٧
Emitter-Base Voltage		V _{EBO}	-7	٧
Collector Current	DC	lc	-1	Α
	Pulse(Note2)	I _{CP}	-2	Α
Collector Dissipation		Pc	1.6	W
Junction Temperature		TJ	-55 ~ +150	Ç
Storage Temperature		T _{STG}	-55 ~ +150	Ç

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.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θја	78	°C/W

Note: Device mounted on FR-4 substrate Pc board, 2oz copper, with 1inch square copper plate.

■ 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, I _E =0	-330			V	
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-10mA (Note), I _B =0	-300			V	
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =-100μA, I _C =0	-6			V	
Collector Cut-off Current	I _{CBO}	V _{CB} =-300V			-50	nA	
Emitter Cut-off Current	I _{EBO}	V _{EB} =-6V			-10	nA	
ON CHARACTERISTICS							
		I _C =-100mA, I _B =-10mA (Note)			-100	mV	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-500mA, I _B =-100mA (Note)			-165	mV	
		I _C =-1A, I _B =-300mA (Note)			-240	mV	
Base -Emitter Saturation Voltage	$V_{BE(SAT)}$	I _C =-1A, I _B =-300mA (Note)			-1050	mV	
Base-Emitter On Voltage	V _{BE(ON)}	Ic=-1A, VcE=-10V			-1020	mV	
	h _{FE}	I _C =-10mA, V _{CE} =-10V	100				
DC Current Gain		Ic=-0.5A, Vc==-10V	100		300		
		I _C =-1A, V _{CE} =-10V	90				
		Ic=-2A, Vc==-10V	10				
SMALL-SIGNAL CHARACTERISTICS							
Transition Frequency	f⊤	Ic=-100mA, VcE=-10V, f=50MHz		85		MHz	

Note: Measured under pulsed conditions. Pulse width = 300ms. Duty cycle \leq 2%.

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