

UTC UNISONIC TECHNOLOGIES CO., LTD

2SA733

PNP SILICON TRANSISTOR

LOW FREQUENCY AMPLIFIER **PNP EPITAXIAL SILICON** TRANSISTOR

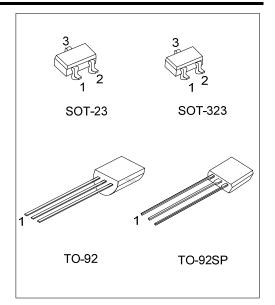
DESCRIPTION

The UTC 2SA733 is a low frequency amplifier.

FEATURES

- * Collector-emitter voltage: BV_{CEO}=-50V
- * Collector current up to -150mA
- * High hFE linearity
- * Complimentary to 2SC945

ORDERING INFORMATION



Ordering Number		Package	Pin Assignment			Dooking	
Lead Free	ree Halogen Free		1	2	3	Packing	
2SA733L-x-AE3-R	2SA733G-x-AE3-R	SOT-23	В	Е	С	Tape Reel	
2SA733L-x-AL3-R	2SA733L-x-AL3-R 2SA733G-x-AL3-R		В	Е	С	Tape Reel	
2SA733L-x-T92-B 2SA733G-x-T92-B		TO-92	E	С	В	Tape Box	
2SA733L-x-T92-K	2SA733G-x-T92-K	TO-92	E	С	В	Bulk	
2SA733L-x-T9S-B	2SA733G-x-T9S-B	TO-92SP	E	С	В	Tape Box	
2SA733L-x-T9S-K 2SA733G-x-T9S-K		TO-92SP	E	С	В	Bulk	
Note: Pin Assignment: B: Base E: Emitter C: Collector							
2SA733 <u>G-x-AE3-R</u>	 (1) B: Tape Box, K: Bulk, R: Tape Reel (2) AE3: SOT-23, AL3: SOT-323, T92: TO-92 T9S: TO-92SP (3) x: refer to Classification of h_{FE} (4) G: Halogen Free and Lead Free, L: Lead Free 						

2SA733

MARKING

PACKAGE	MARKING		
SOT-23 / SOT-323	日 L: Lead Free A7ᄆ ► G: Halogen Free 日 日		
TO-92	UTC A 7 3 3 및 G: Halogen Free Rank 1 Date Code		
TO-92SP	UTC 2SA733 L C: Lead Free G: Halogen Free Date Code		



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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V _{CBO}	-60	V
Collector-Emitter Voltage		V_{CEO}	-50	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Power Dissipation (T _c =25°C)	SOT-23	23 P _C	300	mW
	SOT-323		200	mW
	TO-92		750	mW
	TO-92SP		550	mW
Collector Current		Ιc	-150	mA
Junction Temperature		TJ	+125	°C
Storage Temperature		T _{STG}	-55 ~ +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)

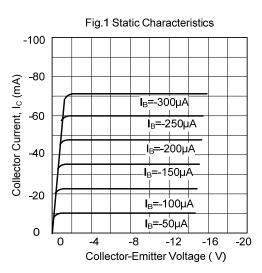
PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Collector-Base Breakdown Voltage	ВV _{сво}	I _C =-100μA, I _E =0	-60			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-10mA, I _B =0	-50			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-100mA, I _B =-10mA		-0.1	-0.3	V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-40V, I _E =0			-100	nA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =-3V, I _C =0			-100	nA
DC Current Gain	h _{FE}	V _{CE} =-6V, I _C =-1mA	90		600	
Current Gain Bandwidth Product	f⊤	V _{CE} =-10V, I _C =-50mA	100	190		MHz
Output Capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz		2.0	3.0	pF
Noise Figure	NF	I _C =-0.1mA, V _{CE} =-6V R _G =10kΩ, f=100Hz		4.0	6.0	dB

CLASSIFICATION OF h_{FE}

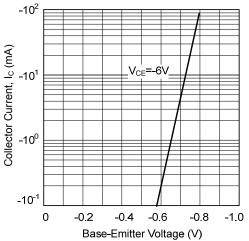
RANK	R	Q	Р	К
RANGE	90-180	135-270	200-400	300-600

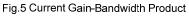


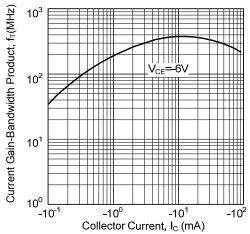
TYPICAL CHARACTERISTICS

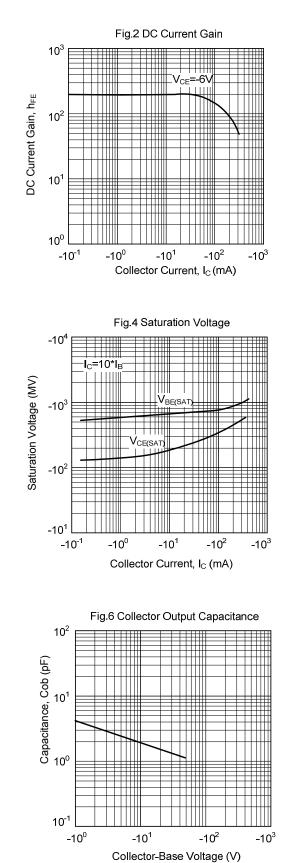






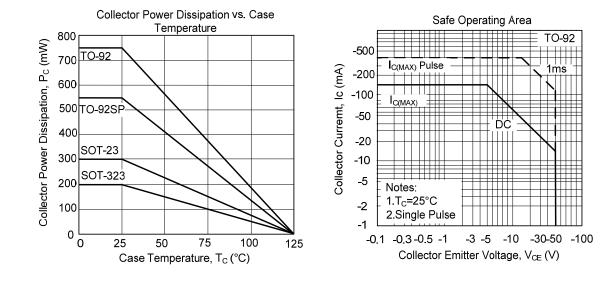








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TYPICAL CHARACTERISTICS (Cont.)

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