2SA1977

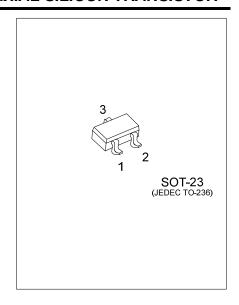
Preliminary

PNP EPITAXIAL SILICON TRANSISTOR

POWER AMPLIFIER APPLICATIONS DRIVER STAGE AMPLIFIER **APPLICATIONS**

FEATURES

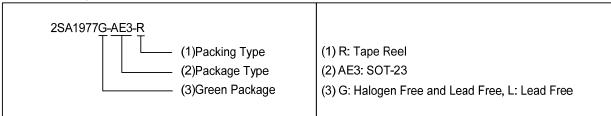
* Complementary to UTC 2SC3356



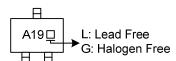
ORDERING INFORMATION

Ordering Number		Dookaga	Pin Assignment			Packing	
Lead Free	Halogen-Free	Package	1	2	3	Packing	
2SA1977L-AE3-R	2SA1977G-AE3-R	SOT-23	В	Е	С	Tape Reel	

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



MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	V_{CBO}	-20	V	
Collector-Emitter Voltage	$V_{\sf CEO}$	-12	V	
Emitter-Base Voltage	V_{EBO}	-3	V	
Collector Current	Ic	-50	mA	
Collector Power Dissipation	Pc	200	mW	
Junction Temperature	T _J	+150	°C	
Storage Temperature Range	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	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =-10V, I _E =0			-0.1	μΑ
Emitter Cut-off Current	I _{EBO}	V _{EB} =-1V, I _C =0			-0.1	μΑ
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-25mA, I _B =-2.5mA			0.2	V
DC Current Gain	h _{FE}	V _{CE} =-8V, I _C =-20mA	20		100	
Collector Capacitance	Cre	V _{CE} =-8V, I _C =-20mA, f=1MHz		0.5	1.0	pF

Note: Mesured by a 3-terminal bridge. Emitter and Case should be connected to the guard terminal.



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

