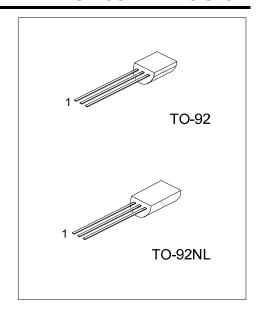
2SC2328A

# NPN EPITAXIAL SILICON TRANSISTOR

# **AUDIO POWER AMPLIFIER**

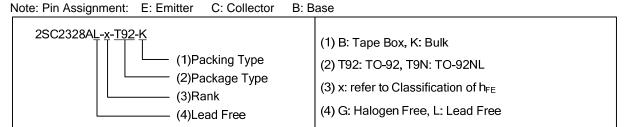
#### **FEATURES**

- \* Collector Dissipation Pc=1 W
- \* 3 W Output Application
- \* Complement of 2SA928A



# **ORDERING INFORMATION**

Ordering Number		Dealtes	Pin Assignment			Dealting	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SC2328AL-x-T92-B	2SC2328AG-x-T92-B	TO-92	Е	С	В	Tape Box	
2SC2328AL-x-T92-K	2SC2328AG-x-T92-K	TO-92	Е	С	В	Bulk	
2SC2328AL-x-T92-R	2SC2328AG-x-T92-R	TO-92	Е	С	В	Tape Reel	
2SC2328AL-x-T9N-K	2SC2328AG-x-T9N-K	TO-92NL	E	С	В	Bulk	
2SC2328AL-x-T9N-B	2SC2328AG-x-T9N-B	TO-92NL	E	С	В	Tape Box	



www.unisonic.com.tw 1 of 2 QW-R211-008, C

## ■ **ABSOLUTE MAXIMUM RATING** (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETE	≣R	SYMBOL	RATINGS	UNIT
Collector-Base Voltage		$V_{CBO}$	30	V
Collector-Emitter Voltage		$V_{CEO}$	30	V
Emitter-Base Voltage		V <sub>EBO</sub>	5	V
Collector Dissipation	TO-92	5	500	107
	TO-92NL	Pc	625	mW
Collector Current	·	Ic	2	А
Junction Temperature		TJ	150	$^{\circ}\mathbb{C}$
Storage Temperature		T <sub>STG</sub>	-55 ~ +150	$^{\circ}$

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<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$BV_CBO$	$I_C=100\mu A, I_E=0$	30			V
Collector-Emitter Breakdown Voltage	$BV_CEO$	I <sub>C</sub> =10mA, I <sub>B</sub> =0	30			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=1mA,I_C=0$	5			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=30V$ , $I_{E}=0$			100	nA
Emitter Cut-Off Current	I <sub>EBO</sub>	$V_{BE}=5V$ , $I_{C}=0$			100	nA
DC Current Gain (Note)	$h_{FE}$	V <sub>CE</sub> =2V, I <sub>C</sub> =500mA	100		320	
Base-Emitter On Voltage	$V_{BE(ON)}$	V <sub>CE</sub> =2V, I <sub>C</sub> =500mA			1	V
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	I <sub>C</sub> =1.5A, I <sub>B</sub> =0.03A			2	V
Output Capacitace	Сов	$V_{CB} = 10V$ , $I_E = 0$ , $f = 1MHz$		30		рF
Current Gain Bandwidth Product	$f_{T}$	V <sub>CE</sub> =2V, I <sub>C</sub> =500mA		120		MHz

### ■ CLASSIFICATION OF h<sub>FE</sub>

RANK	0	Υ
RANGE	100-200	160-320

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