



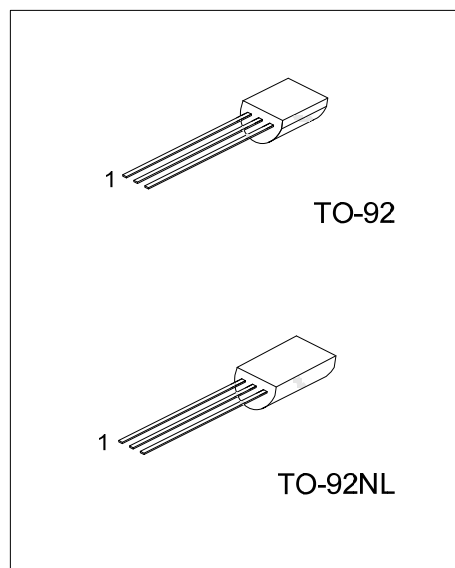
2SC2328A

NPN EPITAXIAL SILICON TRANSISTOR

AUDIO POWER AMPLIFIER

■ FEATURES

- * Collector Dissipation $P_c=1$ W
- * 3 W Output Application
- * Complement of 2SA928A



■ ORDERING INFORMATION

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

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

2SC2328AL-x-T92-K (1) Packing Type (2) Package Type (3) Rank (4) Lead Free	(1) B: Tape Box, K: Bulk (2) T92: TO-92, T9N: TO-92NL (3) x: refer to Classification of h_{FE} (4) G: Halogen Free, L: Lead Free
--	--

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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Dissipation	TO-92	P _C	mW
	TO-92NL		
Collector Current	I _C	2	A
Junction Temperature	T _J	150	°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	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100μA, I _E =0	30			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =10mA, I _B =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 _{EBO}	V _{BE} =5V, I _C =0			100	nA
DC Current Gain (Note)	h _{FE}	V _{CE} =2V, I _C =500mA	100		320	
Base-Emitter On Voltage	V _{BE(ON)}	V _{CE} =2V, I _C =500mA			1	V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =1.5A, I _B =0.03A			2	V
Output Capacitance	C _{OB}	V _{CB} =10V, I _E =0, f=1MHz		30		pF
Current Gain Bandwidth Product	f _T	V _{CE} =2V, I _C =500mA		120		MHz

■ CLASSIFICATION OF h_{FE}

RANK	O	Y
RANGE	100-200	160-320

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. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.