

UTCM28S

NPN EPITAXIAL SILICON TRANSISTOR

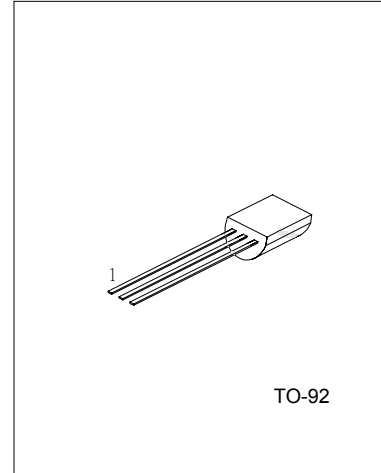
AUDIO OUTPUT DRIVER AMPLIFIER

FEATURES

- *Excellent HFE linearity
- *High DC Current Gain
- *High Power Dissipation

APPLICATION

- *Audio output driver amplifier
- *General purpose switch



1:EMITTER 2:COLLECTOR 3:BASE

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

PARAMETERS	SYMBOL	RATING	UNITS
Collector-base voltage	VCBO	40	V
Collector-emitter voltage	VCEO	20	V
Emitter-base voltage	VEBO	6	V
Collector dissipation(Ta=25°C)	Pc	850	mW
Collector current	Ic	1.25	A
Base current	IB	0.4	A
Junction Temperature	Tj	150	°C
Storage Temperature	TSTG	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base voltage	VCBO	Ic=0.1mA	40			V
Collector-emitter voltage	VCEO	Ic=1mA	20			V
Emitter-base voltage	VEBO	IE=0.1mA	6			V
Collector cut-off current	ICBO	VCB=35V, IE=0			100	nA
Emitter cut-off current	IEBO	VEB=5V, Ic=0			100	nA
DC current gain(note)	hFE1	VCE=1V, Ic=1mA	290		1000	
	hFE2	VCE=1V, Ic=0.1A	300			
	hFE3	VCE1=1V, Ic=0.3A	300			
	hFE4	VCE=1V, Ic=0.5A	300			
Collector-emitter saturation voltage	VCE(sat)	Ic=600mA, IB=20mA			0.55	V
Current gain bandwidth product	fT	VCE=10V, Ic=50mA, f=1MHz	100			MHz
Output capacitance	Cob	VCB=10V, IE=0, f=1MHz		9		pF

UTC UNISONIC TECHNOLOGIES CO. LTD

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QW-R201-015,A

UTCM28S NPN EPITAXIAL SILICON TRANSISTOR

CLASSIFICATION OF hFE2

RANK	B	C	D
RANGE	300-550	500-700	650-1000

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