# UTC M28S

# NPN EPITAXIAL SILICON TRANSISTOR

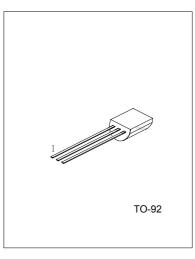
## AUDIO OUTPUT DRIVER AMPLIFIER

### 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	Vсво	40	V				
Collector-emitter voltage	VCEO	20	V				
Emitter-base voltage	VEBO	6	V				
Collector dissipation(Ta=25°C)	www.DataSheet4U.com	850	mW				
Collector current	lc	1.25	А				
Base current	lв	0.4	А				
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	Vсво	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	Ісво	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			
	hFE2	VCE=1V,IC=0.1A	300		1000	
	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	fr	VCE=10V,Ic=50mA,f=1MHz	100			MHz
Output capacitance	Cob	V <sub>CB</sub> =10V,I <sub>E</sub> =0,f=1MHz		9		pF

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CLASSIFICATION OF hFE2

RANK	В	С	D
RANGE	300-550	500-700	650-1000

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