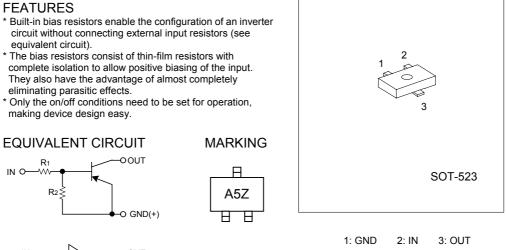
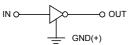
UTCDTA143Z

PNP DIGITAL TRANSISTOR (BUILT-IN RESISTORS)

FEATURES

- circuit without connecting external input resistors (see
- complete isolation to allow positive biasing of the input. They also have the advantage of almost completely





ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply voltage	Vcc	-50	V
Input voltage	Vin	-30 ~ +5	V
Output current	lo	-100	A
	IC (Max.)	-100	mA mA
Power dissipation	PD	150	mW
Junction temperature	Tj	150	$^{\circ}\mathbb{C}$
Storage temperature	Tstg	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

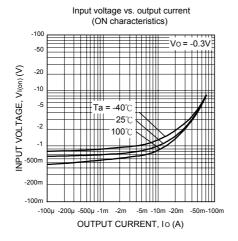
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input voltage	VI (off)	Vcc=-5V, Io=-100μA			-0.5	V
	VI (on)	Vo=-0.3V, Io=-5mA	-1.3			V
Output voltage	Vo (on)	Io/I _I =-5mA/-0.25mA		-0.1	-0.3	V
Input current	lı	V _I =-5V			-1.8	mA
Output current	IO (off)	Vcc=-50V, VI=0V			-0.5	μΑ
DC current gain	Gı	Vo=-5V, Io=-10mA	80			
Input resistance	R1		3.29	4.7	6.11	ΚΩ
Resistance ratio	R ₂ /R ₁		8	10	12	
Transition frequency	fτ	Vce=-10V, Ie=5mA, f=100MHz *		250		MHz

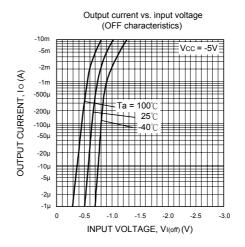
^{*} Transition frequency of the device

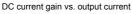


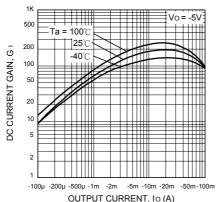
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ELECTRICAL CHARACTERISTIC CURVES

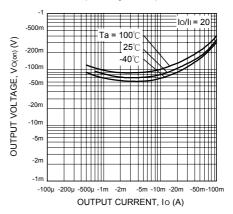








Output voltage vs. output current



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