

DTA123J

PNP SILICON TRANSISTOR

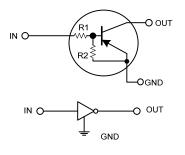
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

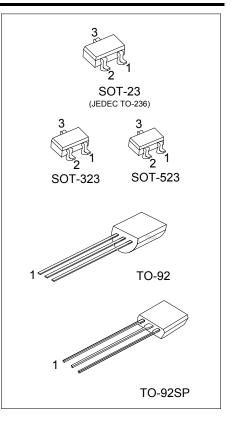
FEATURES

* Built-in bias resistors that implies easy ON/OFF applications.

* The bias resistors are thin-film resistors with complete isolation to allow positive input.

EQUIVALENT CIRCUIT





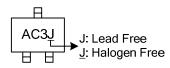
ORDERING INFORMATION

Ordering Number		Deekees	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1 2 3		Packing		
DTA123JL-AE3-R	DTA123JG-AE3-R	SOT-23	G		0	Tape Reel	
DTA123JL-AL3-R	DTA123JG-AL3-R	SOT-323	G		0	Tape Reel	
DTA123JL-AN3-R	DTA123JG-AN3-R	SOT-523	G		0	Tape Reel	
DTA123JL-T92-B	DTA123JG-T92-B	TO-92	G	0	Ι	Tape Box	
DTA123JL-T92-K	DTA123JG-T92-K	TO-92	G	0	Ι	Bulk	
DTA123JL-T92-R	DTA123JG-T92-R	TO-92	G	0	Ι	Tape Reel	
DTA123JL-T9S-K	DTA123JG-T9S-K	TO-92SP	G	0	I	Bulk	
DTA123JL-T9S-B	DTA123JG-T9S-B	TO-92SP	G	0	Ι	Tape Box	

Note: Pin Assignment: G: GND, I: IN, O: OUT

(3)Lead Free (3)Le	, K: Bulk SOT-523,
(3) Lead Free (3) Lead Free (3) L: Lead Free, G: Halogen Free	

MARKING (FOR SOT-23/SOT-323/SOR-523 PACKAGE)



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

PARAMETER		SYMBOL	RATINGS	UNIT	
Supply Voltage		V _{CC}	50	V	
Input Voltage		V _{IN}	-12 ~ +5	V	
Output Current		lo	-100	mA	
		I _{C(MAX)}	-100		
Power Dissipation	SOT-23/ SOT-323	- -	200		
	SOT-523		150	mW	
	TO-92	PD	625		
	TO-92SP		550		
Junction Temperature		TJ	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)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage	V _{I (OFF)}	V _{CC} =-5V, I _O =-100µA			-0.5	V
	V _{I (ON)}	V ₀ =-0.3V, I ₀ =-5mA	-1.1			v
Output Voltage	V _{O(ON)}	I ₀ /I ₁ =-5mA/-0.25mA		-0.1	-0.3	V
Input Current	I,	V ₁ =-5V			-3.6	mA
Output Current	I _{O(OFF)}	V _{CC} =-50V, V ₁ =0V			-0.5	μA
DC Current Gain	G	V ₀ =-5V, I ₀ =-10mA	80			
Input Resistance	R ₁		1.54	2.2	2.86	KΩ
Resistance Ratio	R ₂ /R ₁		17	21	26	
Transition Frequency	f⊤	V _{CE} =-10V, I _E =-5mA, f=100MHz (Note)		250		MHz

Note: Transition frequency of the device



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