

DTA124T

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		Daakaga	Pin Assignment			Dooking
Lead Free	Halogen Free	гаскауе	1	2	3	Facking
DTA124TL-AE3-R	DTA124TG-AE3-R	SOT-23	В	E	С	Tape Reel
Note: Pin Assignment: B: Ba	se E: Emitter C: Collect	tor				

DTA124TG-AE3-R	
(1)Packing Type	(1) R: Tape Reel
(2)Package Type	(2) AE3: SOT-23
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	lc	-100	mA
Collector Power Dissipation	Pc	200	mW
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, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-50μΑ	-50			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-1mA	-50			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =-50μΑ	-5			V
Collector Cutoff Current	I _{CBO}	V _{CB} =-50V			-0.5	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-4V			-0.5	μA
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-5mA, I _B = -0.5mA			-0.3	V
DC Current Transfer Ratio	h _{FE}	V _{CE} =-5V, I _C = -1mA	100	250	600	
Transition Frequency (Note)	f⊤	V _{CE} =-10V, I _E =5mA, f=100MHz		250		MHz
Input Resistance	R1		15.4	22	28.6	kΩ

Note: Transition frequency of the device.



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