



DTA143X

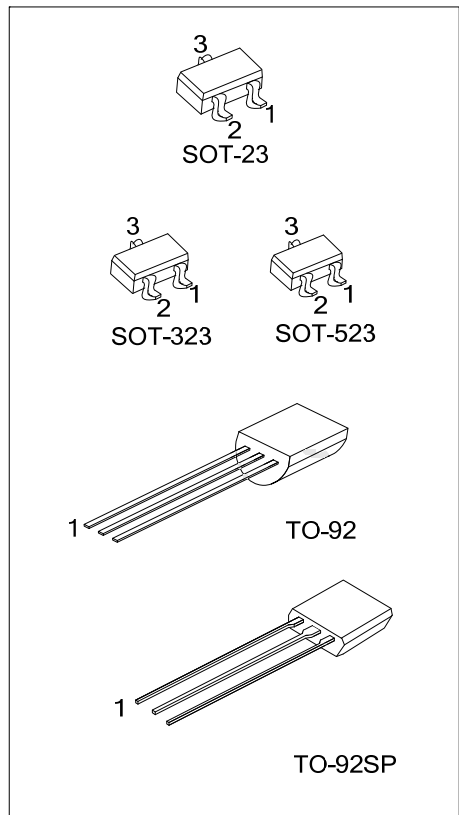
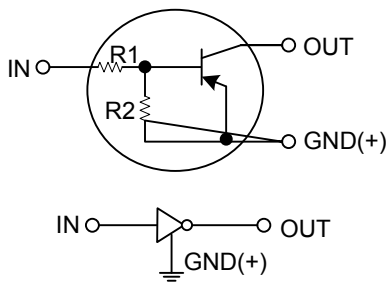
PNP SILICON TRANSISTOR

PNP DIGITAL TRANSISTOR

■ 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

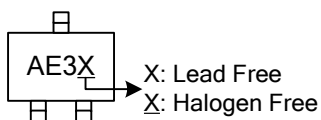


■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
DTA143XL-AE3-R	DTA143XG-AE3-R	SOT-23	G	I	O	Tape Reel
DTA143XL-AL3-R	DTA143XG-AL3-R	SOT-323	G	I	O	Tape Reel
DTA143XL-AN3-R	DTA143XG-AN3-R	SOT-523	G	I	O	Tape Reel
DTA143XL-T92-B	DTA143XG-T92-B	TO-92	G	O	I	Tape Box
DTA143XL-T92-K	DTA143XG-T92-K	TO-92	G	O	I	Bulk
DTA143XL-T92-R	DTA143XG-T92-R	TO-92	G	O	I	Tape Reel
DTA143XL-T9S-K	DTA143XG-T9S-K	TO-92SP	G	O	I	Bulk

<p>DTA143XL-AE3-R</p> <p>(1) Packing Type (2) Package Type (3) Lead Free</p>	<p>(1) R: Tape Reel, B: Tape Box, K: Bulk (2) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523, T92: TO-92, T9S: TO-92SP (3) G: Halogen Free, L: Lead Free</p>
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■ MARKING (FOR SOT-23/SOT-323/SOR-523 PACKAGE)



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER		SYMBOL	RATINGS	UNIT
Supply Voltage		V _{CC}	-50	V
Input Voltage		V _I	-20 ~ +7	V
Output Current		I _O	-100	mA
		I _{C(MAX.)}	-100	
Power Dissipation	SOT-23/SOT-323/SOT-523	P _D	300	mW
	TO-92		625	
	TO-92SP		550	
Junction Temperature		T _J	150	°C
Storage Temperature		T _{STG}	-55 ~ +150	°C

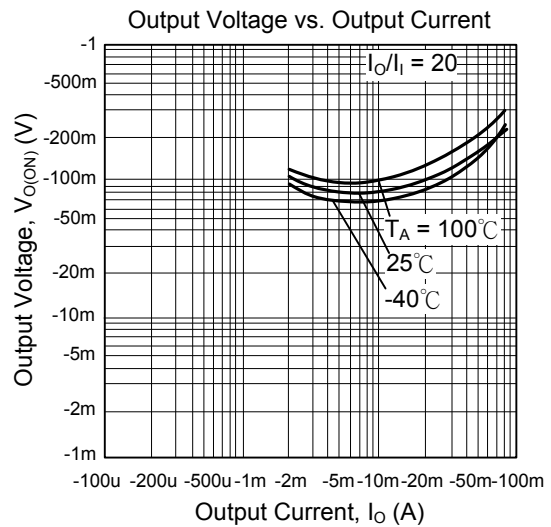
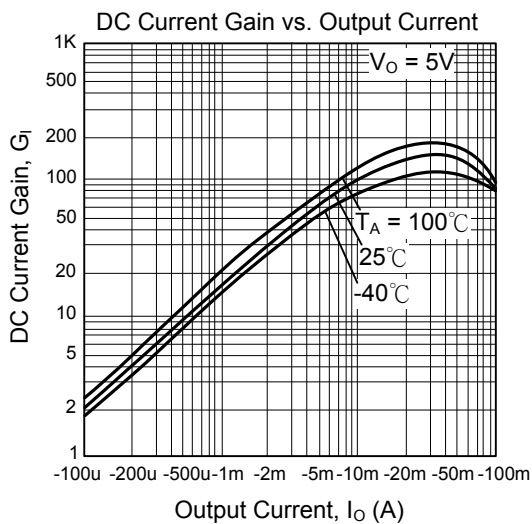
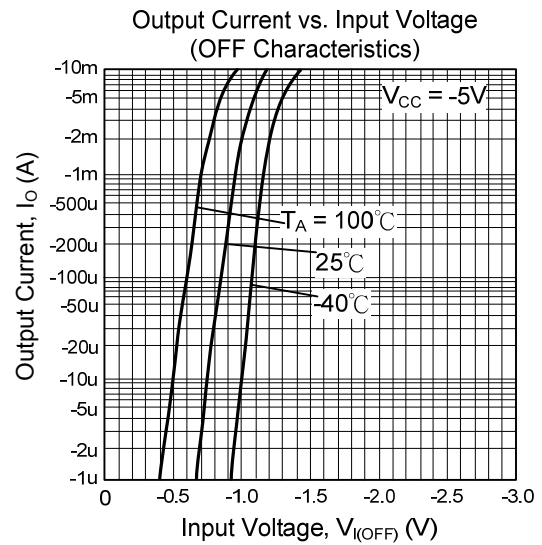
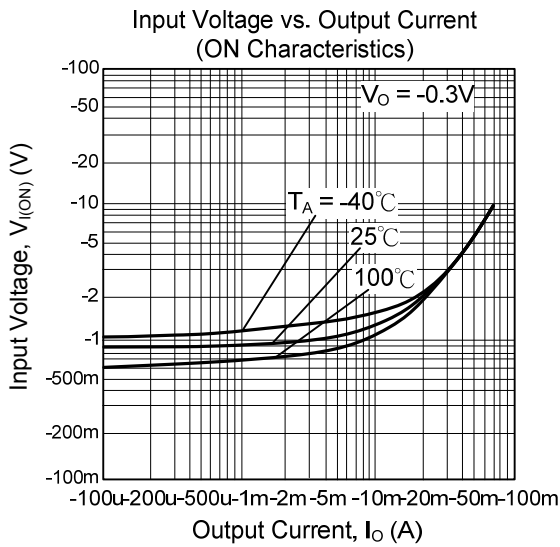
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ 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			-0.3	V
	V _{I(ON)}	V _O =-0.3V, I _O =-20mA	-2.5			
Output Voltage	V _{O(ON)}	I _O /I _I =-10mA/-0.5mA		-0.1	-0.3	V
Input Current	I _I	V _I =-5V			-1.8	mA
Output Current	I _{O(OFF)}	V _{CC} =-50V, V _I =0V			-0.5	μA
DC Current Gain	G _I	V _O =-5V, I _O =-10mA	30			
Input Resistance	R ₁		3.29	4.7	6.11	KΩ
Resistance Ratio	R ₂ /R ₁		1.7	2.1	2.6	
Transition Frequency	f _T	V _{CE} =-10V, I _E =5mA, f=100MHz (Note)		250		MHz

Note: Transition frequency of the device

TYPICAL CHARACTERISTICS



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