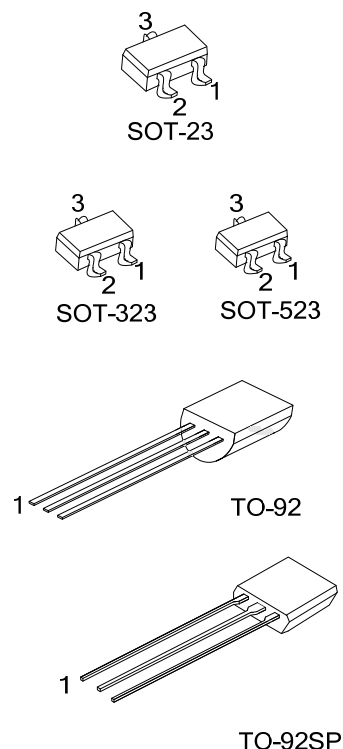
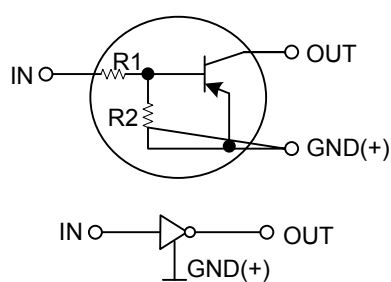


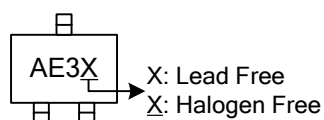
**DTA143X****PNP SILICON TRANSISTOR****PNP DIGITAL TRANSISTOR**■ **FEATURES**

- * 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

DTA143XL-AE3-R	(1) Packing Type	(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
	(2) Package Type	
	(3) Lead Free	

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

■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

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	$^\circ\text{C}$
Storage Temperature		T_{STG}	-55 ~ +150	$^\circ\text{C}$

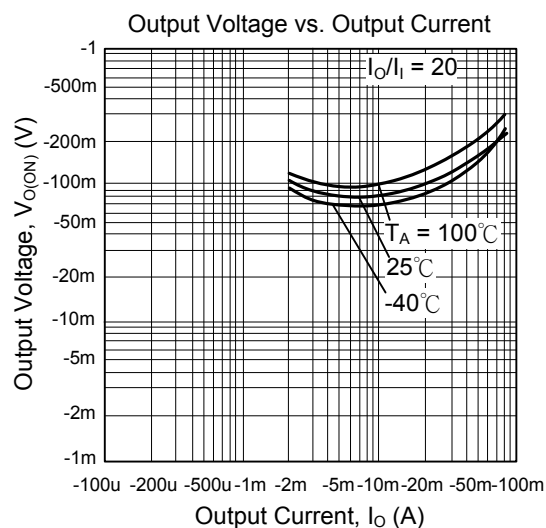
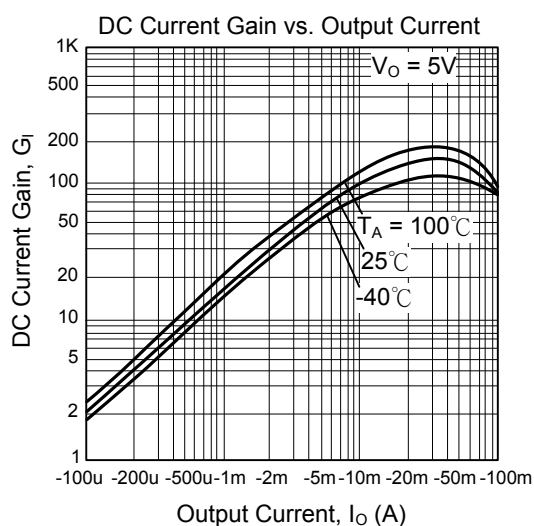
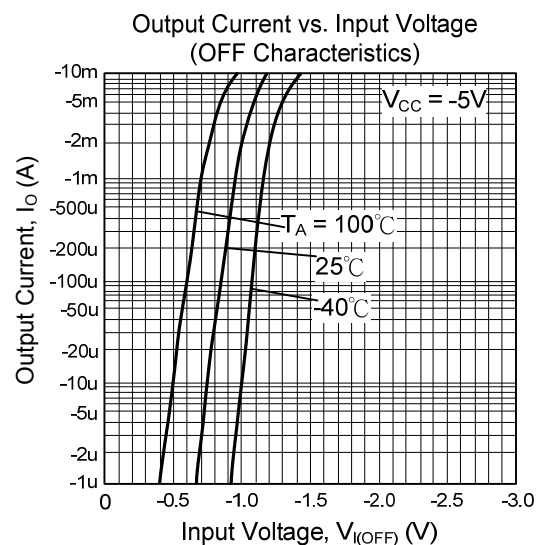
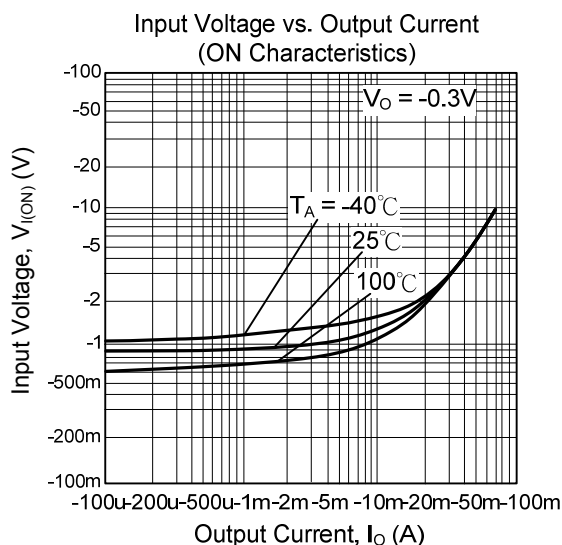
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage	$V_{I(OFF)}$	$V_{CC}=-5V, I_O=-100\mu A$			-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	K Ω
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



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.