



DTA114E

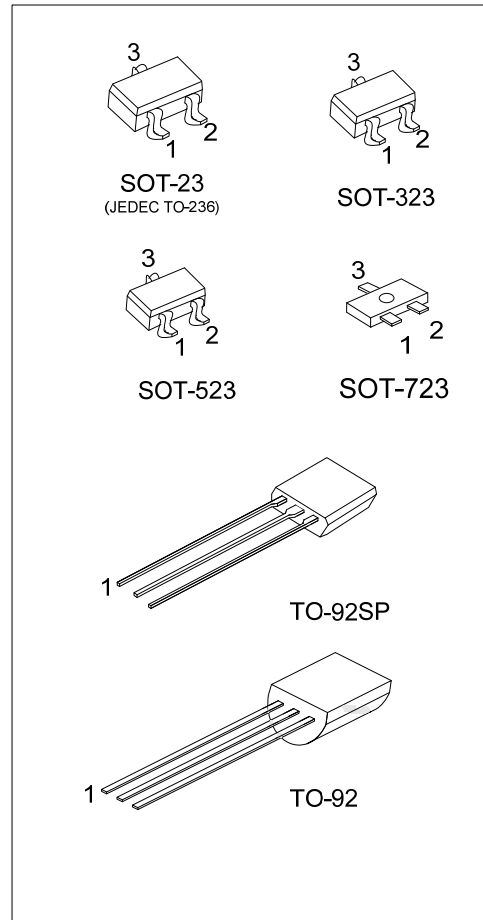
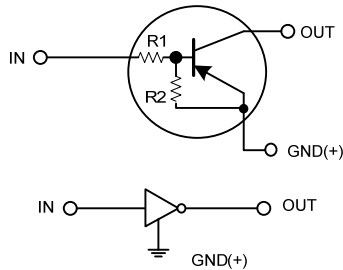
PNP SILICON TRANSISTOR

DIGITAL TRANSISTOR (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		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
DTA114EL-AE3-R	DTA114EG-AE3-R	SOT-23	I	G	O	Tape Reel
DTA114EL-AL3-R	DTA114EG-AL3-R	SOT-323	I	G	O	Tape Reel
DTA114EL-AN3-R	DTA114EG-AN3-R	SOT-523	I	G	O	Tape Reel
DTA114EL-AQ3-R	DTA114EG-AQ3-R	SOT-723	I	G	O	Tape Reel
DTA114EL-T92-B	DTA114EG-T92-B	TO-92	G	O	I	Tape Box
DTA114EL-T92-K	DTA114EG-T92-K	TO-92	G	O	I	Bulk
DTA114EL-T9S-K	DTA114EG-T9S-K	TO-92SP	G	O	I	Bulk

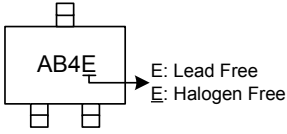
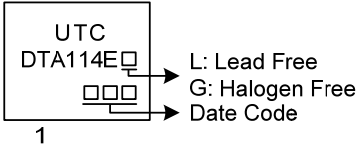
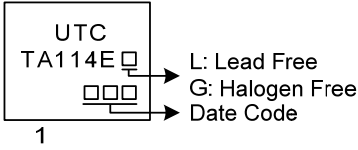
Note: Pin assignment: I: IN G: GND O: OUT

<p>DTA114EG-AE3-R</p>	<p>(1) R: Tape Reel, B: Tape Box, K: Bulk</p> <p>(2) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523, T92: TO-92, T9S: TO-92SP</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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PNP SILICON TRANSISTOR

MARKING

SOT-23 / SOT-323 SOT-523 / SOT-723	TO-92	TO-92SP
 <p>AB4E → E: Lead Free E: Halogen Free</p>	 <p>UTC DTA114E → L: Lead Free G: Halogen Free Date Code 1</p>	 <p>UTC TA114E → L: Lead Free G: Halogen Free Date Code 1</p>

■ ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$, unless otherwise specified.)

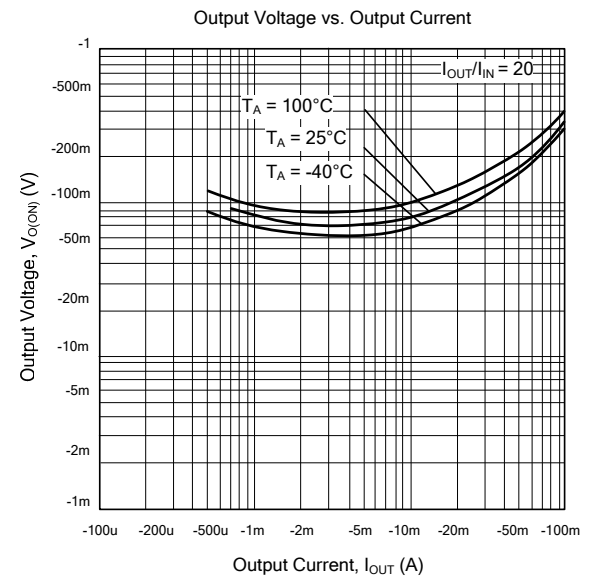
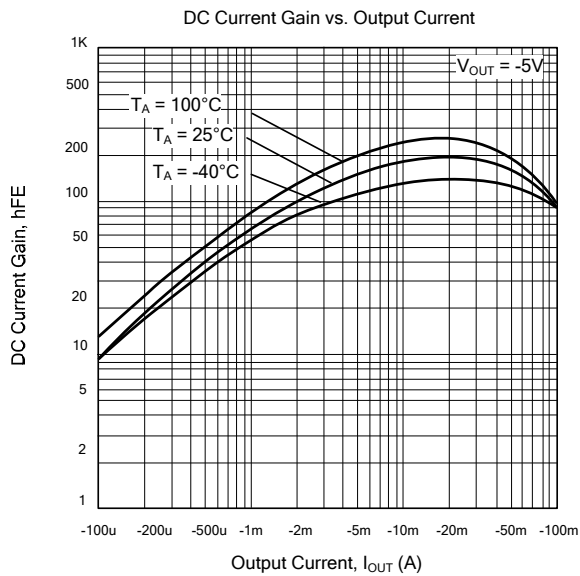
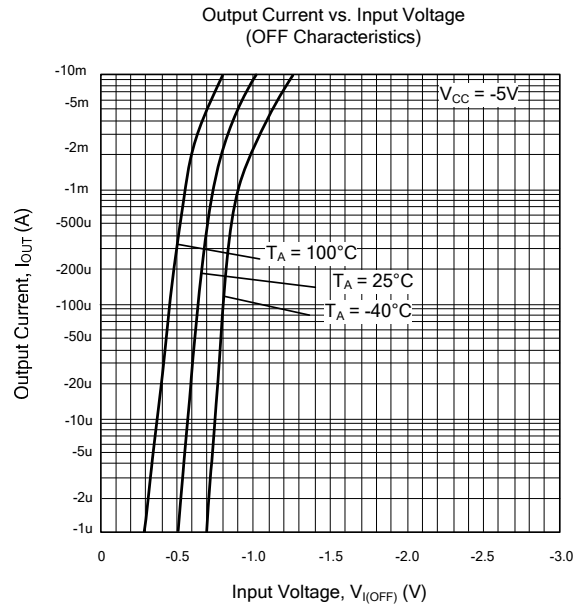
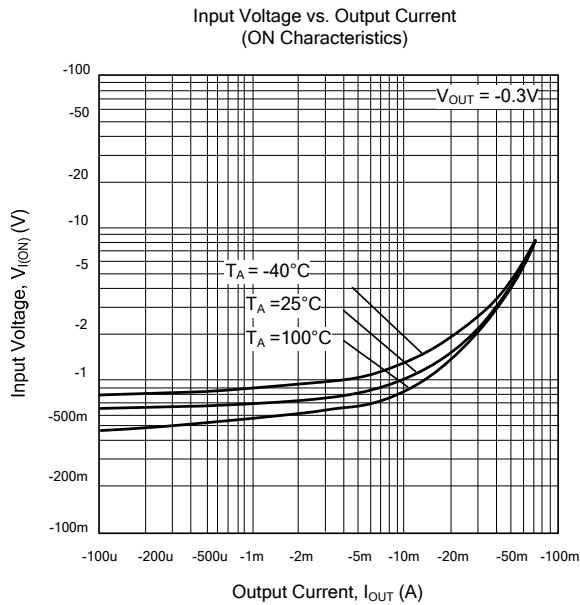
PARAMETER		SYMBOL	RATINGS	UNIT
Supply Voltage		V_{CC}	-50	V
Input Voltage		V_{IN}	-40 ~ +10	V
Output Current		$I_{OUT(MAX)}$	-100	mA
Power Dissipation	SOT-23/SOT-323	P_D	200	mW
	SOT-523		150	mW
	SOT-723		100	mW
	TO-92		625	mW
	TO-92SP		550	mW
Junction Temperature		T_J	+150	$^\circ\text{C}$
Storage Temperature		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 ($T_A = 25^\circ\text{C}$, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
OFF CHARACTERISTICS						
Input Voltage	$V_{IN(OFF)}$	$V_{CC} = -5\text{V}, I_{OUT} = -100\mu\text{A}$			-0.5	V
	$V_{IN(ON)}$	$V_{OUT} = -0.3\text{V}, I_{OUT} = -10\text{mA}$	-3			
Output Voltage	$V_{OUT(ON)}$	$I_{OUT}/I_{IN} = -10\text{mA}/-0.5\text{mA}$			-0.3	V
Input Current	I_{IN}	$V_{IN} = -5\text{V}$			-0.88	mA
Output Current	$I_{OUT(OFF)}$	$V_{CC} = -50\text{V}, V_{IN} = 0\text{V}$			-0.5	μA
ON CHARACTERISTICS						
DC Current Gain	h_{FE}	$V_{OUT} = -5\text{V}, I_{OUT} = -5\text{mA}$	30			
SMALL SIGNAL CHARACTERISTICS						
Input Resistance	R_1		7	10	13	k Ω
Resistance Ratio	R_2/R_1		0.8	1	1.2	
Transition Frequency	f_T	$V_{CE} = -10\text{V}, I_E = 5\text{mA}, f = 100\text{MHz}$		250		MHz

TYPICAL CHARACTERISTICS



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