



## UA11J

Preliminary

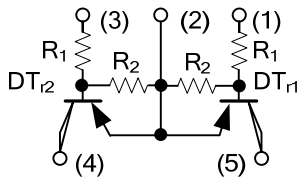
**DUAL TRANSISTOR**

### EMITTER COMMON (DUAL DIGITAL TRANSISTORS)

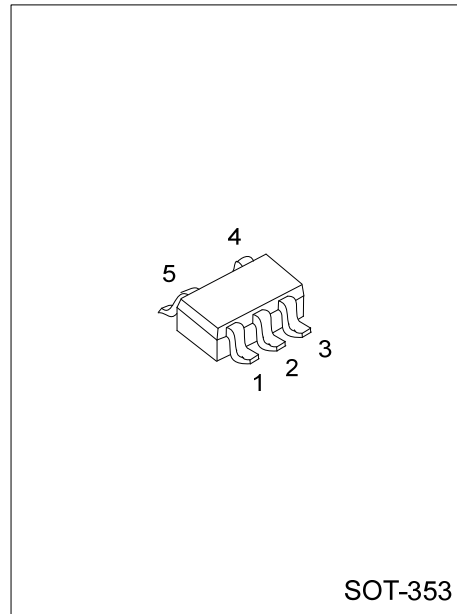
#### ■ FEATURES

- \* Two DTA143Z Chips in a SOT-353 Package.
- \* Mounting Cost and Area can be Cut in Half.
- \* Epitaxial Planar Type
- \* PNP Silicon Transistor(Built-In Resistor Type)

#### ■ EQUIVALENT CIRCUIT



$R_1=4.7k\Omega$   
 $R_2=47k\Omega$

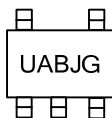


#### ■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment					Packing
		1	2	3	4	5	
UA11JG-AL5-R	SOT-353	B1	E1,E2	B2	C2	C1	Tape Reel

<p>UA11JG-AL5-R</p> <ul style="list-style-type: none"> <li>(1) Packing Type</li> <li>(2) Package Type</li> <li>(3) Halogen Free</li> </ul>	<ul style="list-style-type: none"> <li>(1) R: Tape Reel</li> <li>(2) AL5: SOT-353</li> <li>(3) G: Halogen Free</li> </ul>
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#### ■ MARKING



■ ABSOLUTE MAXIMUM RATING (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V <sub>CC</sub>	-50	V
Input Voltage	V <sub>IN</sub>	-30 ~ +5	V
Output Current	I <sub>OUT</sub>	-100	mA
Collector Current	I <sub>C(MAX)</sub>	-100	mA
Total Power Dissipation (Note1)	P <sub>D</sub>	150	mW
Junction Temperature	T <sub>J</sub>	+150	°C
Storage Temperature	T <sub>STG</sub>	-40 ~ +150	°C

Note 1. 120mW per element must not be exceeded.

2. 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 (Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage	V <sub>IN(OFF)</sub>	V <sub>CC</sub> =-5V, I <sub>OUT</sub> =-100μA			-0.5	V
	V <sub>IN(ON)</sub>	V <sub>OUT</sub> =-0.3V, I <sub>OUT</sub> =-5mA	-3			
Output Voltage	V <sub>OUT(ON)</sub>	I <sub>OUT</sub> /I <sub>IN</sub> =-5mA/-0.25mA		-0.1	-0.3	V
Input Current	I <sub>IN</sub>	V <sub>IN</sub> =-5V			-1.8	mA
Output Current	I <sub>OUT(OFF)</sub>	V <sub>CC</sub> =-50V, V <sub>IN</sub> =0V			-0.5	μA
DC Current Gain	h <sub>FE</sub>	V <sub>OUT</sub> =-5V, I <sub>OUT</sub> =-10mA	80			
Transition frequency of the device	f <sub>T</sub>	V <sub>CE</sub> =-10V, I <sub>E</sub> =-5mA, f=100MHz		250		MHz
Input Resistance	R <sub>1</sub>		3.29	4.7	6.11	KΩ
Resistance Ratio	R <sub>2</sub> /R <sub>1</sub>		8	10	12	

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